

# ÜRÜN KATALOĞU PRODUCT CATALOGUE



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# HAKKIMIZDA

Lavinya Plast A.Ş., plastik hammadde ve kimyasal maddelerin ithalatı ve ihracatı alanında faaliyet göstermek üzere, güçlü bir vizyonla kurulmuştur. Firmamız, Türkiye'nin dünya plastik hammadde kullanımında üst sıralarda yer almasını stratejik bir hedef olarak görmekte ve bu hedef doğrultusunda sorumluluklarını en yüksek standartlarla yerine getirmektedir.

Kurulduğumuz ilk günden itibaren, plastik ve ambalaj sektöründeki yenilikleri yakından takip ederek, müşteri memnuniyetini ve güvenini ön planda tutmayı ilke edindik. Lavinya Plast A.Ş., yalnızca hammadde tedarikçisi olmanın ötesine geçerek, müşterilerinin iş süreçlerinde çözüm ortağı olmayı ve sektörde fark yaratan bir değer sunmayı kendine misyon edinmiştir.

Firmamız, Orta Doğu (Asya), Avrupa ve Amerika gibi dünyanın farklı bölgelerinden plastik hammaddelerin ithalatını gerçekleştirmekte ve bu değerli kaynakları Türkiye'deki üreticilerle buluşturmaktadır. Aynı zamanda, tedarik zinciri yönetimindeki etkinliğiyle, Türkiye'nin dış ticaret gücüne katkıda bulunarak Avrupa, Afrika ve komşu ülkelere hammadde ihracatı yapmaktadır.

Türkiye genelinde geniş bir depolama ve dağıtım ağına sahip olan Lavinya Plast A.Ş., tüm operasyonlarını yenilikçi teknolojiler ve etkin lojistik çözümlerle desteklemektedir. İthalat ve ihracat süreçlerini başından sonuna kadar titizlikle yöneten firmamız, müşterilerine kesintisiz, güvenilir ve kaliteli bir ticaret deneyimi sunmayı garanti etmektedir.

Lavinya Plast A.Ş. olarak en büyük hedefimiz, yalnızca müşterilerimizin değil, sektörün de gelişimine katkı sağlamaktır. Müşterilerimize doğru zamanda doğru kararlar almalarını sağlayarak, global rekabette kazanan taraf olmalarına destek oluyoruz. "Satın alırken kazanmanın" önemini iş ortaklarımızla paylaşarak, birlikte büyümeyi ve başarıya ulaşmayı önemsiyoruz.

Sektörümüzde sadece bir tedarikçi değil, aynı zamanda güvenilir bir iş ortağı olmanın gururunu taşıyor ve geleceğin plastik dünyasını birlikte inşa etmeyi hedefliyoruz.



# ABOUT US

Lavinya Plast A.Ş. was established with a strong vision to operate in the import and export of plastic raw materials and chemical products. Our company recognizes Turkey's prominent position in global plastic raw material consumption and is committed to fulfilling its responsibilities in this field with the highest standards.

Since our establishment, we have prioritized customer satisfaction and trust by closely following advancements in the plastics and packaging industries. Lavinya Plast A.Ş. is not merely a raw material supplier; we position ourselves as a solution partner for our customers, adding value and providing innovative approaches to address their needs.

Our company imports plastic raw materials from regions such as the Middle East (Asia), Europe, and the Americas, making these high-quality resources accessible to manufacturers across Turkey. Additionally, we contribute to Turkey's foreign trade strength by efficiently managing our supply chain and exporting raw materials to regions including Europe, Africa, and neighboring countries.

With an extensive storage and distribution network across Turkey, Lavinya Plast A.Ş. supports all operations with advanced technologies and effective logistics solutions. We meticulously manage import and export processes from start to finish, ensuring seamless, reliable, and high-quality trade experiences for our clients.

At Lavinya Plast A.Ş., our primary goal is to contribute to the development of not only our customers but also the industry as a whole. We empower our partners to make the right decisions at the right time, enabling them to gain a competitive edge in global markets. By emphasizing the importance of "winning while purchasing," we prioritize mutual growth and success in all our partnerships.

We take pride in being more than just a supplier in our sector; we aim to be a trusted business partner and a key contributor to shaping the future of the plastics industry.

# ÜRÜNLERİMİZ

## OUR PRODUCTS

### MDPE

Rotasyon / Rotational Molding

> 3840 UA > UR 644



### LAYPE / LLDPE

Lineer Polietilen

Linear Low-Density Polyethylene

> 209 AA > 209 KJ



### AYPE / LDPE

Alçak Yoğunluklu Polietilen

Low-Density Polyethylene

> 2420 H > 2420 D



### YYPE / HDPE

Yüksek Yoğunluklu Polietilen Enjeksiyon

High-Density Polyethylene Injection

> HD6040 UA > HD6070 UA



### YYPE / HDPE

Yüksek Yoğunluklu Polietilen Boru

High-Density Polyethylene Pipe

> CRP 100



### YYPE / HDPE

Yüksek Yoğunluklu Polietilen Şişirme

High-Density Polyethylene Blow Molding

> BL 3 > BL 4



### YYPE / HDPE

Yüksek Yoğunluklu Polietilen Film

High-Density Polyethylene Blow Film

> 7000 F



### ABS

Akrilonitril Bütadien Stiren

Acrylonitrile Butadiene Styrene

> SD0150



### PS

Polistren Kristal / Polystyrene Crystal

> GPPS 1540 > GPPS 1160



### PS

Polistren Antişok

Polystyrene Antishock

> HIPS 7240



### PPH

Polipropilen Homopolimer

Polypropylene Homopolymer

> 550 J > 552 R



### Karbon Siyahı / Carbon Black

> N220 > N330 > N550



# MDPE / Rotasyon

## MDPE / Rotational Molding

HD3840UA



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Rotasyonel kalıplama, çok farklı uygulamalarda kullanılabilen içi boş plastik malzemelerin üretimini sağlayan bir kalıplama tekniğidir.

Rotational molding is a molding technique used to produce hollow plastic materials that can be utilized in a wide range of applications.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Index (2,16kg)	g/10 min.	SO1133-1997, Condition D	4
Density	gr/cm <sup>3</sup>	ISO1872/1 - 1993	0,938
Tensile Stress at Yeild	MPA	ISO527-1976, Type 2 Speed D	19
Elongation at Break	%	ISO527-1976, Type 2 Speed D	>1000
Flexural Modulus	MPA	ISO178-1997	650
Charpy Impact	KJ/M <sup>2</sup>	ISO179-1982	10
Hardness	-	ISO868-1978, Type D	62
Melting Point	OC	ASTM D-2117	127
Vicat Softening	OC	ISO306 Method A	117

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle teyit etmelidir. Daha fazlası için Garantili ürünler hakkında bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız.

\*\* Rotomoulded Kova-23 Litre - 3mm Kalınlık 1,2 kg

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more

information about guaranted items, please refer to S.S.S. ( Standard Sales Specifications)

\*\* Rotomoulded Bucket-23 Liters - 3mm Thickness 1.2 kg

Grade Suffix (Additives Indication) :

UA: GENERAL ANTIOXIDANT AND LIGHT STABLISER

# LAYPE / Linear Polietilen

## LLDPE / Linear Low-Density Polyethylene

LL0209AA - LL0209KJ



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Linear Düşük Yoğunluklu Polietilen ya da kısaca LLDPE.

Linear Low-Density Polyethylene, commonly abbreviated as LLDPE.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Index (190 OC 2,16kg)	g/10 min.	ASTM D-1238	0,9
Density	gr/cm <sup>3</sup>	ASTM D-1505	0,921
Vicat Softening Point	OC	ASTM D-1525	105
Dart Drop Impact	GR	ASTM D-1709	140
Tensile Stress at Yeild	MPA	ASTM D-882	650
Tensile Stress at Break	MPA	ASTM D-882	41/32
Elongation at Break	%	ASTM D-882	620/840
Haze	%	ASTM D-1003	12
Gloss (450)	%	ASTM D-2457	56

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Daha fazlası için Garantili ürünler hakkında bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız.

\*\* 38 mm film, 2,5:1 şişirme oranı, 225 OC eriyik sıcaklığı, MD: Makine Yönü, TD: Enine Yön

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more

information about guaranted items, please refer to S.S.S. ( Standard Sales Specifications)

\*\* 38mm film, 2.5:1 blow up ratio, 225 OC melt temperature, MD: Machine Direction, TD: Transverse Direction

Grade Suffix (Additives Indication) : AA: GENERAL ANTIOXIDANT

KJ: GENERAL ANTIOXIDANT WITH SLIP AGENT / ANTIBLOCKING AGENTS

# AYPE / Alçak Yoğunluklu Polietilen LDPE / Low-Density Polyethylene

2420 D - 2420 H



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Renksiz, yarı saydam, esnek, kokusuz, tatsız bir plastik olan LDPE'nin kolaylıkla ısıyla yapışması en üstün özelliklerinden biri olup yaklaşık 120 OC'de yapıştırılabilmektedir.

LDPE is a colorless, semi-transparent, flexible, odorless, and tasteless plastic. One of its key properties is its ability to easily bond through heat sealing, which can be achieved at approximately 120°C.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Density	g/cm <sup>3</sup>	ISO1183	0,923
Melt Flow Rate (190 OC 2,16kg)	g/10 min.	ISO 1133	0,25
Tensile Modulus	MPA	ISO 527-1,-2	240
Tensile Stress at Yield	MPA	ISO 527-1,-2	10
Tensile Strength at Break MD/TD	MPA	ISO 527-1,-3	27/20
Tensile Strain at Break MD/TD	%	ISO 527-1,-3	200/500
Dart Drop Impact (50 blown film)	g	ASTM D 1709	250
Vicat Softening Temp (A50) (50 OC/h 10N)	°C	ISO 306	94
Haze (50)	%	ASTM D 1003	<14
Gloss (600,500)		ASTM D 2457	>50

**Tipik Özellikler:** spesifikasyon olarak yorumlanmamalıdır.  
**Kullanım Alanları:** Ağır hizmet torbası, sera örtüsü, ambalaj filmi, kablo kılıflama, ev eşyası, oyuncak, boru, hortum, tüp, şişe, kumaş ve metal kaplamaları, rotasyonlar, kalıplama maddeleri yapımında

**Typical Properties:** not to be construed as specifications.

**Applications:** Heavy-duty bags, greenhouse covers, packaging films, cable sheathing, household items, toys, pipes, hoses, tubes, bottles, fabric and metal coatings, rotational molding, and molding material production.

# HDPE / High-Density Polyethylene for Injection Molding

## YYPE / Yüksek Yoğunluklu Polietilen Enjeksiyon

HD 6040 UA - HD 6070UA



Ürünlerimiz  
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Veri Seti  
Data Set

Yüksek yoğunluklu polietilen elektriksel uygulamalara oldukça elverişli bir yapıdadır.

High-density polyethylene has a highly suitable structure for electrical applications.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE (HD6040UA)	TYPICAL VALUE (HD6070UA)
Melt Flow Index (2,16kg)	g/10 min.	ASTM D-1238	3,9	7
Density	gr/cm <sup>3</sup>	ASTM D-1505	0.960	0,960
Yellow Index	-	ASTM E-313	-1	-1
Whiteness Index	-	ASTM E-313	60	60
Contamination	NO	BP 137	5	5
Vicat Softening Point	°C	ASTM D-1525	112	120
Tensile Stress at Yield	MPA	ASTM D-638	20	26
Elongating at Break	%	ASTM D-638	700	900
Charpy Impact	KJ/M <sup>2</sup>	ASTM D-6110	10	5

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Daha fazlası için Garantili ürünler hakkında bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız.

\*\* Rotomoulded Kova-23 Litre - 3mm Kalınlık 1,2 kg

Grade Suffix (Katki Maddeleri Göstergesi): UA: GENEL ANTIOKSİDAN VE IŞIK SABİTLEYİCİ  
Uygulamalar: Plastik kasalar, endüstriyel taşıma konteynerleri, plastik paletler ve bidonlar.

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.  
( Standard Sales Specifications)

\*\* Rotomoulded Bucket-23 Liters - 3mm Thickness 1.2 kg

Grade Suffix (Additives Indication) : UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER  
Applications: Plastic crates, industrial transport containers, plastic pallets, and jerry cans.

# YYPE / Yüksek Yoğunluklu Polietilen Boru

## HDPE / High-Density Polyethylene for Pipes

### HDPE CRP 100



Ürünlerimiz  
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Veri Seti  
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Kopma uzaması minimum % 50'dir. PE Borular yeraltı hareketlerinden etkilenmezler, kırılma özellikleri yoktur.

The elongation at break is at least 50%. PE pipes are not affected by underground movements and have no brittle characteristics.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Index (21,6kg)	g/10 min.	ISO 1133	6.2 ± 1.0
Melt Index (5)	g/10 min.	ISO 1133	0.22 ± 0.03
FRR (21,6/5)			28 ± 3
Density	gr/cm <sup>3</sup>	ISO 1183	0.948 ± 0.002
Notched Impact at 23 0C	mj/mm <sup>2</sup>	ISO 179/1 eA	24
Hydrostatic Strength (800C)	h	ISO 1167	5000 (4.5 N/mm <sup>2</sup> )

Önerilen Ekstrüzyon sıcaklığı: 190 - 220 0C

Tavsiye edilen enjeksiyon kalıplama sıcaklığı: 200 - 280 0C

#### Kullanım Alanları:

Yeraltı içme suyu boruları, doğalgaz boruları, her türlü yeraltı ve yerüstü boru ek parçaları

Recommended Extrusion temperature: 190 - 220 0C

Recommended Injection moulding temperature: 200 - 280 0C

#### Applications:

Underground drinking water pipes, natural gas pipes, and various underground and above-ground pipe fittings.



# YYPE / Yüksek Yoğunluklu Polietilen Şişirme

## HDPE / High-Density Polyethylene for Blow Molding

BL3 / BL4



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

HDPE şişirme uygulamaları, özellikle yiyecek ve içecek kapları için mükemmeldir çünkü şişelerin içindekilere sızmaz.

HDPE is excellent for blow molding applications, particularly for food and beverage containers, as it prevents the contents of bottles from leaking. Additionally, HDPE is recyclable, making it a sustainable choice for blow molding processes.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE (BL3)	TYPICAL VALUE (BL4)
Melt Flow Index (21,6kg)	g/10 min.	ISO 1133	23	9.5 ± 2.0
Melt Index (5)	g/10 min.	ISO 1133	1.2	0.35 ± 0.06
FRR (21,6/5)			19	27 ± 3
Density	gr/cm <sup>3</sup>	ISO 1183	0.954	0.951 ± 0.002
Swell Ratio	%			110 ± 15
Notched Impact at 23 OC	mj/mm <sup>2</sup>	ISO 179/1 eA	9	≥10

Önerilen varil sıcaklıkları şu aralıktadır: 190 - 280 OC

Tavsiye edilen enjeksiyon kalıplama sıcaklığı: 200 - 280 OC

### Kullanım Alanları:

En sık karşılaşılan parçalar; çocuk oyuncak bebekleri, yakıt tankları, plastik çiçekler, plastik şişeler, tuhafiy malzemeleri, içi boş şişeler, bidonlar, v.b. içi boş plastik parçalardır.

Recommended barrel temperatures range between: 190 - 280 OC

Recommended Injection moulding temperature: 200 - 280 OC

### Applications:

The most common items include children's dolls, fuel tanks, plastic flowers, plastic bottles, haberdashery items, hollow bottles, jerry cans, and other hollow plastic parts.

# YYPE / Yüksek Yoğunluklu Polietilen Film HDPE / High-Density Polyethylene for Film

HDPE 7000 F



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Plastikler, organik ürünlerden elde edilirler. Plastik üretiminde kullanılan selüloz, kömür, doğal gaz, tuz ve tabii ki ham petrol gibi maddeler doğal ürünlerdir.

Plastics are derived from organic materials. Substances used in plastic production, such as cellulose, coal, natural gas, salt, and, of course, crude oil, are all natural products.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Rate (190 OC 2,16kg)	g/10 min.	ISO 1133	0,04
Density	kg/m3	ISO 1183	952
Tensile Stress at Yield	MPA	ISO 527-1,-2	22
Tensile Strength at Break	MPA	ISO 527-1,-2	>24
Elongation at Break	%	ISO 527-1,-2	>500
Charpy Impact Strength	Kj/m2	ISO 179-1	NB
Shore Hardness	D Scale	ISO 868	64
Stress Cracking Resistance	Hr	ASTM D 1693	600
Melting Temperature	°C	ISO 11357	131
Vicat Softening Temperature	°C	ISO 306	124

Mükemmel mekanik sağlamlık ve yüksek sertlik Mükemmel işlenebilirlik (yüksek hızda) Doku benzeri film, giysi/market/ürün torbaları, atık torbaları, sayaç torbaları, market çuvalları, çöp torbaları

#### Kullanım Alanları:

Doku benzeri film, giysi/bakkal/ürün torbaları, atık çöp torbaları, sayaç torbaları, bakkal torbaları, çöp torbaları

Excellent mechanical strength and high stiffness Excellent processability (at high speed) Tissue-like film, garment/grocery/merchandise bags, disposal waste bags, counter bags, grocery sacks, trash bags

#### Applications:

Textured films, clothing/grocery/product bags, waste garbage bags, meter bags, grocery bags, and trash bags.

# ABS

## ABS (Acrylonitrile Butadiene Styrene)

SD0150



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Bu malzeme polibütadien içinde stiren ve akrilonitrilin polimerizasyonu ile elde edilen bir kopolimerdir.

This material is a copolymer obtained through the polymerization of styrene and acrylonitrile within polybutadiene.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Index (200 OC /5kg)	g/10 min.	ASTM D-1238	1.8
IZOD Impact Strength	Kgf cm/cm	ASTM D-256	22
Vicat Softening Point (5Kgf Load)	°C	ASTM D-1525	98
Tensile Strength at Yield	Kgf / cm <sup>2</sup>	ASTM D-638 (5mm/min)	450
Flexural Strength at Yield	Kgf / cm <sup>2</sup>	ASTM D-790	600
Flexural Modulus	Kgf / cm <sup>2</sup>	ASTM D-790	22000
Rockwell Hardness (at 23 OC)	R.Scale	ASTM D-785	105

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Garantili ürünler hakkında daha fazla bilgi için lütfen S.S.S. (Standart Satış Spesifikasyonları) bölümüne bakınız.

#### Kullanım Alanları:

Beyaz eşya, elektrikli ev aletleri, elektrik panoları, mobilya aksesuar ve ayakları, ayakkabı topuk, bazı dayanıklı takım çantaları

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications)

#### Applications:

ABS is widely used in the production of household appliances, electrical devices, electrical panels, furniture accessories and legs, shoe heels, and certain durable toolboxes

# PS / POLİSTREN KRİSTAL

## PS / Polystyrene Crystal

GPPS 1540 / 1160



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Polistiren, monomer haldeki stirenden polimerizasyon ile üretilen bir polimerdir. Petrolde elde edilir.

Polystyrene is a polymer produced through the polymerization of styrene in its monomeric form. It is derived from petroleum.



PROPERTY	UNIT	TEST METHOD (GPPS1540)	TEST METHOD (GPPS1160)	TYPICAL VALUE (GPPS1540)
Melt Flow Index (200 OC /5kg)	g/10 min.	ISO 1133 H	ASTM D - 1238	11
Styrene Residual Monomer	PPM	CLG LABPSG004 (Atofina Test Method)	CLG LABPSG004 (Atofina Test Method)	<500
Vicat Softening Point (500C/hr 1kg)	°C	ISO 306A50	ASTM D - 1525	91
Rockwell Hardness		ISO 2039-2	ASTM D - 785	L Scale/70
Tensile Strength at Break	MPA	ISO 527-2	ASTM D - 638	42
Elongation at Break	%	ISO 527-2	ASTM D - 638	2
Flexural Modulus	MPA	ISO 178		2900
Tensile Modulus	MPA	ISO 527-2	ASTM D - 638	3100
Water Adsorption	%	ISO 62		<0.1

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Garantili ürünler hakkında daha fazla bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız.

Bu kalitenin yoğunluğu ve büzülmesi sırasıyla yaklaşık olarak 1,04 kg/lt ve (% 0,4 - 0,7) (ASTN D-955) civarındadır.

Aksi belirtilmedikçe tüm testler 23 OC'de gerçekleştirilmiştir. Sınıf referansında dördüncü rakamın "1" (1541) - "1" (1161) olması harici bir yağlayıcının dahil edildiğini gösterir. Enjeksiyon kalıplama ürünlerinin kalitesi nemden etkileniyorsa, GPPS granülleri 70 OC'de 2-4 saat kurutulabilir.

#### Kullanım Alanları:

PS'den yoğurt kapları, mücevher kutuları, yemek tabakları, taşıma kasaları, oyuncak, yiyecek saklama kapları, elbise askıları yapılır. PS köpükler ise ses ve ısı yalıtımı, ambalajlama vb. yerlerde tüketilirler. Stirenin kopolimerizasyonu ile elde polimerik ürünler ise polistirenin kullanım alanlarını genişletmekte ve bu polimerin bildiğimiz en faydalı maddelerden biri olmasını sağlamaktadır.

#### Applications:

Polystyrene (PS) is used to manufacture yogurt containers, jewelry boxes, food plates, transport crates, toys, food storage containers, and clothing hangers. PS foams are commonly utilized in sound and heat insulation, packaging, and similar applications. The copolymerization of styrene expands the usability of polystyrene into various polymeric products, making it one of the most versatile and beneficial materials in the polymer industry.

# PS / POLİSTREN ANTIŞOK

## PS / Polystyrene Antishock

HIPS 7240



Ürünlerimiz  
Our Products



Veri Seti  
Data Set

Polistiren, monomer haldeki stirenden polimerizasyon ile üretilen bir polimerdir. Petrolden elde edilir.

Polystyrene is a polymer produced through the polymerization of styrene in its monomeric form. It is derived from petroleum.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Melt Flow Index (200 OC /5kg)	g/10 min.	ASTM D - 1238	4.5
Styrene Residual Monomer	PPM	CLG LABPSG004 (Atofina Test Method)	<500
Vicat Softening Point (500C/hr 1kg)	°C	ASTM D - 1525	97
Rockwell Hardness		ASTM D - 785	Scale/R65
Tensile Strength at Yield	MPA	ASTM D - 638	23
Tensile Strength at Break	MPA	ASTM D - 638	21
Elongation at Break	%	ASTM D - 638	60
Tensile Modulus	MPA	ASTM D - 638	1950
Izod Impact	KJ/m2	ASTM D - 256	11

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Garantili ürünler hakkında daha fazla bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız. Bu kalitenin yoğunluğu ve büzülmesi sırasıyla yaklaşık olarak 1,04 kg/lt ve (% 0,4 - 0,7) (ASTN D-955) civarındadır.

Aksi belirtilmedikçe tüm testler 23 OC'de gerçekleştirilmiştir.

Sınıf referansında dördüncü hanenin "1" (7240) olması harici bir yağlayıcının dahil edildiğini gösterir.

#### Kullanım Alanları:

PS'den yoğurt kapları, mücevher kutuları, yemek tabakları, taşıma kasaları, oyuncak, yiyecek saklama kapları, elbise askıları yapılır. PS köpükler ise ses ve ısı yalıtımı, ambalajlama vb. yerlerde tüketilirler. Stirenin kopolimerizasyonu ile elde polimerik ürünler ise polistirenin kullanım alanlarını genişletmekte ve bu polimerin bildiğimiz en faydalı maddelerden biri olmasını sağlamaktadır.

#### Applications:

PS is used to produce yogurt containers, jewelry boxes, food plates, transport crates, toys, food storage containers, and clothing hangers. PS foams are utilized in sound and heat insulation, packaging, and similar applications. Polymers obtained through the copolymerization of styrene broaden the usability of polystyrene and make it one of the most beneficial materials known in the industry.

# PPH POLİPROPİLEN

## PPH / Polypropylene Homopolymer

PPH 550J / 552R



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Veri Seti  
Data Set

POLİPROPİLEN, otomotiv sanayinde kullanılan parçalardan, tekstil ve yiyecek paketlemesine kadar çok geniş kullanım alanı olan, termoplastik bir polimerdir.

Polypropylene is a thermoplastic polymer with a wide range of applications, from automotive industry components to textiles and food packaging.



PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE (PPH552R)	TYPICAL VALUE (PPH550J)
MFR at 230 °C /2.16kg	g/10 min.	D1238/L	25	3
Flexural Modulus	MPA	D790	1500	1350
Notched Izod Impact at 23 °C	J/m	D256	30	35
Tensile Strength at Yield	MPA	D638	32	35
Elongation at Yield	%	D638	13	12
Vicat Softening Point 10N	°C	D1525	152	156
HDT (0.46N/mm <sup>2</sup> )	°C	D648	94	94
Rockwell Hardness	R.Scale	D785	100	102
Oven Ageing at 150°C	Hours	D3012	150	360

\* Yukarıda belirtilen tüm veriler tipik değerlerdir ve gerçek spesifikasyonlar olarak yorumlanmamalıdır. Kullanıcılar sonuçları kendi testleriyle doğrulamalıdır. Garantili ürünler hakkında daha fazla bilgi için lütfen S.S.S.'ye (Standart Satış Şartnameleri) bakınız.

### Kullanım Alanları:

Polipropilen (PP) ya da polipropen ambalaj ve etiketleme, tekstil (örneğin halat, termal iç çamaşırı ve halı), kırtasiye, plastik parçalar ve yeniden kullanılabilir kap çeşitleri, laboratuvar ekipmanı, hoparlör, otomotiv parçaları ve polimer banknotlar gibi birçok uygulamada kullanılan bir termoplastik polimerdir.

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. ( Standard Sales Specifications)

### Applications:

Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a variety of applications such as packaging and labeling, textiles (e.g., ropes, thermal underwear, and carpets), stationery, plastic components, reusable containers, laboratory equipment, speakers, automotive parts, and polymer banknotes.





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## ROTOMOULDING

### HD3840UA TYPICAL DATA SHEET

HD3840UA is high density polyethylene copolymer containing butene-1(C4) as comonomer. It is suitable for use as rotational moulding applications. HD3840UA has the following characteristics: good impact strength, easy to demould, UV stabilised, good whiteness, excellent surface finish. Applications: general purpose rotomolded items, septic tanks, recycling banks

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX(2.16KG)	g/10min	ASTM D-1238	4
• DENSITY	gr/cm <sup>3</sup>	ASTM D-1505	0.938
• YELLOWNESS INDEX	-	ASTM E-313	-1
• WHITENESS INDEX	-	ASTM E-313	60
• CONTAMINATION	NO.	BP137	5
• VICAT SOFTENING POINT	°C	ASTM D-1525	115
• TENSILE STRESS AT YEILD	MPA	ASTM D-638	15
• ELONGATION AT BREAK	%	ASTM D-638	900
• ESCR(IGEPAL10% F50,23°C)	HR	ASTM D-1693	350
• CHARPY IMPACT	KJ/M <sup>2</sup>	ASTM D-6110	18

\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

\*\*Rotomoulded Bucket-23 Liters-3mm Thickness-1.2Kg

Grade Suffix (Additives Indication):

UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER

\*\*\* HD3840UA falls into the density range of MDPE. However, in order to observe the nomenclature procedure of PE plant licensor (INEOS), this grade is designated as HDPE; while it can be introduced as MD3840UA as well







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## LINEAR LOW DENSITY POLYETHYLENE

### LLO209AA TYPICAL DATA SHEET

LLO209AA is linear low density polyethylene copolymer containing butene-1(C4) as comonomer. It is suitable for blending with conventional LDPE. Film made from pure LLO209AA has the following advantages over LDPE: better sealing, higher puncture resistance, greater drawdown ability and higher tensile strength. This grade has food contact approval. Applications: green house film, silage film, hand bags and general purpose film applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE	
• MELT FLOW INDEX(190 C 2.16KG)	g/10min	ASTM D-1238	0.9	
• DENSITY	gr/cm <sup>3</sup>	ASTM D-1505	0.921	
• VICAT SOFTENING POINT	°C	ASTM D-1525	105	
<b>FILM**</b>				
• DART DROP IMPACT	METHOD A	GR	ASTM D-1709	140
• TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/11
• TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	41/32
• ELONGATION AT BREAK	MD/TD	%	ASTM D-882	620/840
• HAZE	-	%	ASTM D-1003	12
• GLOSS(45°)	-	%°	ASTM D-2457	56

\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

\*\*38µm film, 2.5:1 blow up ratio, 225°C melt temperature, MD: Machine Direction, TD: Transverse Direction  
Grade Suffix (Additives Indication):  
AA: GENERAL ANTIOXIDANT





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## LINEAR LOW DENSITY POLYETHYLENE

### LL0209KJ TYPICAL DATA SHEET

LL0209KJ is linear low density polyethylene copolymer containing butene-1(C4) as comonomer. It is suitable for blending with conventional LDPE. Film made from pure LL0209KJ has the following advantages over LDPE: better sealing, higher puncture resistance, greater drawdown ability, easy opening properties at 2 layer film and higher tensile strength. This grade has food contact approval. Applications: green house film, silage film, hand bags and general purpose film applications.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
• INDEX(190 C 2.16KG)		g/10min	ASTM D-1238	0.9
• DENSITY		gr/cm <sup>3</sup>	ASTM D-1505	0.921
• VICAT SOFTENING POINT		°C	ASTM D-1525	105
<b>FILM**</b>				
• DART DROP IMPACT	METHOD A	GR	ASTM D-1709	140
• TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/11
• TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	41/32
• ELONGATION AT BREAK	MD/TD	%	ASTM D-882	620/840
• HAZE	-	%	ASTM D-1003	12
• GLOSS(45°)	-	%°	ASTM D-2457	56

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

\*\*38µm film, 2.5:1 blow up ratio, 225°C melt temperature, MD: Machine Direction, TD: Transverse Direction Grade Suffix (Additives Indication): KJ: GENERAL ANTIOXIDANT WITH SLIP AGENT/ANTIBLOCKING AGENTS





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LOW DENSITY POLYETHYLENE

## 2420H TYPICAL DATA SHEET

Product Description: LD 2420 H is a non-additivated, low density polyethylene. It is characterized by a good balanced between processability and mechanical properties. Films made from Lupolen2420H exhibit good optical properties. It is delivered in pellet form.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• Melt Flow Rate (190 °C/2.16Kg)	g/10min	ISO 1133	1.9
• Density	g/cm <sup>3</sup>	ISO 1183	0.924
• Tensile Modulus	MPa	ISO527-1;-2	260
• Tensile Stress at yield	MPa	ISO 527-1,-2	11
• Tensile Stress at Break MD/TD	MPa	ISO 527-1,-3	26 / 18
• Tensile Strain at Break MD/TD	%	ISO 527-1,-3	250 / 600
• Dart Drop Impact (50µm)	g	ASTM D 1709	110
• Vicat Softening Temperature	°C	ISO 306 / A50	94
• Haze (50µ Blown Film)	%	ASTM D 1003	< 8
• Gloss (60°,50µm)	---	ASTM D 2457	> 100
• Hardness Shore D (3Sec)	---	ISO 868	48

Test Specimen: Film properties tested using 50 µm thicknesses blown film extruded at a melt temperature of 180 °C and a blow- up ratio of 2.5:1

Notes: These are typical property values not to be construed as specification limits.

**Storage:** The resin is packed in 25 kg bags, octabins or bulk containers protecting it from contamination. If it is stored under certain conditions, i. e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavorable storage conditions may also intensify the resin's slight characteristic odor. Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the material on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.





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LOW DENSITY POLYETHYLENE

## 2420D TYPICAL DATA SHEET

### 1. Product Description:

Lupolen 2420 D is a non-additivated, low-density Polyethylene. It is delivered in pellet form.

### 2. Applications:

- Bags & Pouches
- Bottles for Consumer Goods
- Shrink Film
- Blown Film
- Film

The product features include good processability, good tear strength, and good toughness.

### PROPERTY

### UNIT

### TEST METHOD

### TYPICAL VALUE

• Density	g/cm <sup>3</sup>	ISO 1183	0.923
• Melt Flow Rate (MFR) (190°C/2.16Kg)	g/10 min	ISO 1133	0.25
• Tensile Modulus	MPa	ISO 527-1, -2	240
• Tensile Stress at Yield	MPa	ISO 527-1, -2	10
• Tensile Strength at Break MD/TD	MPa	ISO 527-1, -3	27/20
• Tensile Strain at Break MD/TD	%	ISO 527-1, -3	200/500
• Dart Drop Impact (50 Blown Film)	g	ASTM D 1709	250
• Vicat Softening Temp (A50, 50°C/h 10N)	°C	ISO 306	94
• Haze (50)	%	ASTM D 1003	<14
• Gloss (60°, 50)		ASTM D 2457	50

Typical properties: not to be construed as specifications





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HIGH DENSITY POLYETHYLENE

### HD6040UA TYPICAL DATA SHEET

HD6040UA is high density polyethylene copolymer containing butene-1(C4) as comonomer with medium content of light stabiliser additive. HD6040UA has the following characteristics: good impact strength, excellent surface finish. Applications: large dustbins and pails, pallet

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX(2.16KG)	g/10min	ASTM D-1238	3.7
• DENSITY	gr/cm <sup>3</sup>	ASTM D-1505	0.960
• YELLOW INDEX	-	ASTM E-313	-1
• WHITENESS INDEX	-	ASTM E-313	60
• CONTAMINATION	NO.	BP137	5
• VICAT SOFTENING POINT	°C	ASTM D-1525	112
• TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
• ELONGATION AT BREAK	%	ASTM D-638	700
• CHARPY IMPACT	KJ/M <sup>2</sup>	ASTM D-6110	10

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Grade Suffix (Additives Indication): UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER





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HIGH DENSITY POLYETHYLENE

### HD6070UA TYPICAL DATA SHEET

HD6070UA is high density polyethylene copolymer containing butene-1(C4) as comonomer with medium content of light stabiliser additives. It is suitable for general purpose injection moulding items. HD6070UA has the following characteristics: good impact strength, easy processing, high warpage resistance, high rigidity, UV stabilised. Applications: crates, boxes, seats

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX(2.16KG)	g/10min	ASTM D-1238	7
• DENSITY	gr/cm <sup>3</sup>	ASTM D-1505	0.960
• YELLOW INDEX	-	ASTM E-313	-1
• WHITENESS INDEX	-	ASTM E-313	60
• CONTAMINATION	NO.	BP137	5
• VICAT SOFTENING POINT	°C	ASTM D-1525	120
• TENSILE STRESS AT YEILD	MPA	ASTM D-638	26
• ELONGATION AT BREAK	%	ASTM D-638	900
• CHARPY IMPACT	KJ/M <sup>2</sup>	ASTM D-6110	5

All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Grade Suffix (Additives Indication): UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER





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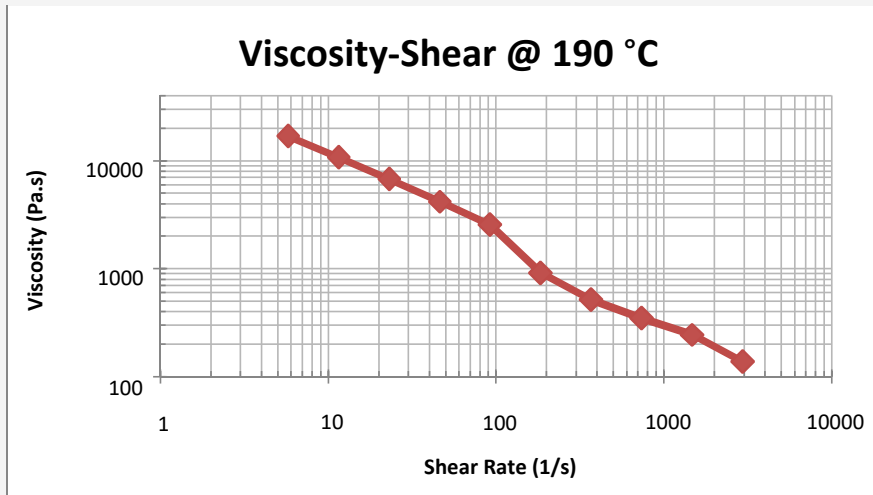
## HIGH DENSITY POLYETHYLENE

### CRP 100N TYPICAL DATA SHEET

Product Description HM-CRP100 N is a high density polyethylene with 1-Butene as co monomer. It is natural, outstanding ESCR, high impact strength, outstanding hydrostatic strength for PE 100 class Typical Application pipe extrusion PE 100 class, industrial and pressure pipe , gas pipe, drinking water pipe, relining , fittings

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• Melt Index (21.6)	g/10 min	ISO 1133	6.2 ± 1.0
• Melt Index (5)	g/10 min	ISO 1133	0.22 ± 0.03
• FRR (21.6/5)	---	---	28 ± 3
• Density	g/cm <sup>3</sup>	ISO 1183	0.948 ± 0.002
<b>Molded Properties</b>			
	Unit	Test Method	Value
• Notched Impact @ 23 °C	mJ/mm <sup>2</sup>	ISO 179/1 eA	24
<b>Mechanical Properties</b>			
	Unit	Test Method	Value
• Hydrostatic Strength (80 °C)	h	ISO 1167	5000(4.5 N/mm <sup>2</sup> )

Processing Conditions Recommended Extrusion temperature: 190-220 °C. Recommended injection moulding temperature: 200-280 °C.



**Storage and Handling.** The material is packed in 25 kg bags or in bulk containers protecting it from contamination. Storage times of natural materials longer than 6 months may have a negative influence on the quality of the final product (for example the brightness). It is generally recommended to convert all materials latest within 6 months from the date of delivery. The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Further unfavourable storage conditions are large fluctuations in ambient temperature and high atmospheric humidity. These conditions may lead to moisture condensing inside the packaging. Under these circumstances, it is recommended to dry the material before use. Unfavourable storage conditions may also intensify the material's slight characteristic odour.





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## HIGH DENSITY POLYETHYLENE

### 4760 TYPICAL DATA SHEET

#### Product Description

HF-4760 (BL3) is a blow molding grade resin with high density, stiffness, good ESCR. High rigidity and good flowability which made it proper for usage in bottles and small blow molding goods.

#### Typical Application

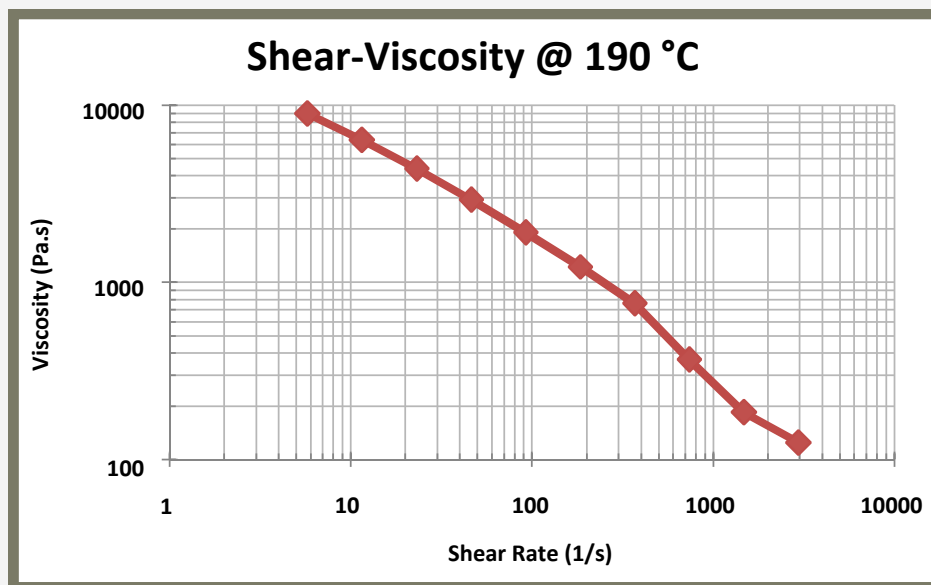
Containers (up to 10 lit), packing pharmaceuticals & surfactants

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• Melt Index(21.6)	g/10 min	ISO 1133	23
• Melt Index(5)	g/10 min	ISO 1133	1.2
• FRR (21.6/5)	----	---	19
• Density	g/cm <sup>3</sup>	ISO 1183	0.954
Molded Properties	Unit	Test Method	Value
• Notched Impact @ 23 °C	mJ/mm <sup>2</sup>	ISO 179/ 1 eA	9

-Oncompression molded according to ASTM D1928C

#### Processing conditions

Recommended barrel temperaturesrang between 190 °C and 280 °C



**Storage and Handling.** Polyethylen products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. The Storage area should be dry and preferably don't exceed 50 °C. JPC would not responsible about quality diminishing such as color change, bad smell or ets which caused by bad storage conditions. It is better to process PE resin within 6 months after delivery.







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## HIGH DENSITY POLYETHYLENE

### 8355 TYPICAL DATA SHEET

#### Characteristic Properties

- High molar mass, easily process- able high stiffness strenght, good stress Cracking resistance and very good molding surface finish.

#### Main Applications

- General purpose grade for large container.

#### Additives

- Antioxidant/Process stabi- lizer
- Lubricant/ acid scavenger

RESIN PROPERTIES	UNIT	TEST METHOD	TYPICAL VALUE
• Melt Index(21.6)	(g/10 min)	ISO 1133	9.5
• Melt Index(5)	(g/10 min)	ISO 1133	0.35
• FRR (21.6/5)			27
• Density	g /cm <sup>3</sup>	ISO 1183	0.951
• Swell Ratio	%		110
Moulded Properties	Unit	Test Method	Value
• Notched Impact @ 23 °C	mJ/mm <sup>2</sup>	ISO 179/ 1 eA	10

HM-8355(BL4) is a Blow molding grade resin which is manufactured by suspension polymerization of ethylene monomer. HM-8355 (BL4) is a bu-modal high density polyethylene with Butene-1 as co monomer with general purpose of large container.

(This data are typical values and are not to be construed as product specifications.)





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HIGH DENSITY POLYETHYLENE

7000F TYPICAL DATA SHEET

APPLICATION

Excellent mechanical strength and high stiffness Excellent processability (at high speed)

Tissue-like film, garment/grocery/merchandise bags, disposal waste bags, counter bags, grocery sacks, trash bags

PROPERTY

UNIT

TEST METHOD

TYPICAL VALUE

• Melt flow rate	g/10 min.	ISO 1133	0.04
• Density	kg/m <sup>3</sup>	ISO 1183	952
• Tensile Strength at yield	MPa	ISO 527-1, -2	27
• Tensile Strength at break	MPa	ISO 527-1, -2	>24
• Elongation at Break	%	ISO 527-1, -2	>500
• Charpy Impact strength	kJ/m <sup>2</sup>	ISO 179-1	NB
• Shore hardness	D scale	ISO 868	64
• Stress cracking resistance	hr	ASTM 1693	>600
• Melting temperature	°C	ISO 11357	131
• Vicat softening temperature	°C	ISO 306	124





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ACRYLONITRILE BUTADIENE STYRENE

## SD0150 TYPICAL DATA SHEET

SD0150 is one of the styrenic terpolymer (ABS) grade with improved toughness versus HIPS grades. SD0150 exhibits low shrinkage, and good dimensional stability. SD0150 is widely used in general injection molding applications. Use this information as a guide to aid you in selecting the proper resin for your application.

Applications:

Furniture, Automotive Parts, General Injection Molding, Appliances Casing, Office Supplies.

Drying:

Drying prior to processing is recommended in a desiccant dehumidifying hopper dryer. An inlet air dew point of  $-20^{\circ}\text{F}$  ( $-29^{\circ}\text{C}$ ) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at  $180^{\circ}$  -  $190^{\circ}\text{F}$  ( $82^{\circ}$  -  $88^{\circ}\text{C}$ ). Drying for 4 hours at  $160^{\circ}$  -  $170^{\circ}\text{F}$  ( $71^{\circ}$  -  $77^{\circ}\text{C}$ ) is also adequate.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX (200°C/5KG)	GR/10MIN	ASTM D-1238	1.8
• IZOD IMPACT STRENGTH	KJ/M2	ASTM D-256	22
• VICAT SOFTENING POINT (50N LOAD)	KGF/CM2	ASTM D-1525	98
• TENSILE STRENGTH AT YIELD	°C	ASTM D-638	450
• ROCKWELL HARDNESS (AT 23°C)	R.SCALE	ASTM D-785	105

\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)





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POLYSTYRENE CRYSTAL

## GPPS 1540 TYPICAL DATA SHEET

GPPS1540 is an easy flowing crystal polystyrene designed for extrusion or injection applications. It improves extruder output and thermoforming cycle time when mixed with a high impact polystyrene such as HIPS7240. It is particularly suitable for glossy-layer coextrusion. Applications: packaging articles, petri dishes, office equipments, pen barrels, crisper boxes for refrigerators, cups gloss layer coextrusion. anionic styrene butadiene copolymer dilution.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX(200°C-5KG)	g/10min	ASTM D-1238	11
• STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
• VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	91
• ROCKWELL HARDNESS	-	ASTM D-1525	L SCALE/ 70
• TENSILE STRESS AT BREAK	MPA	ASTM D-638	42
• ELONGATION AT BREAK	%	ASTM D-638	2
• TENSILE MODULUS	MPA	ASTM D-638	3100

\*\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7)%(ASTM D-955) respectively. All test are carried out at 23°C, unless otherwise stated. If in grade reference the fourth digit is "1"(1541), indicates an external lubricant is included.

If the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.





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POLYSTYRENE CRYSTAL

## GPPS 1160 TYPICAL DATA SHEET

GPPS1160 is a high heat resistance and molecular weight crystal polystyrene for extrusion and bioriented polystyrene(OPS) industry.It is particularly useful in the production of thick sheet by direct inject gassing,where it gives expanded sheets with high mechanical properties.

GPPS1160 can also be used in dilution with HIPS7240 for extrusion of sheet for thermoforming.

Applications:

shower cabinets,lighting thin films,insulation board,foam sheet of fruits trays,meat trays,egg boxes.

### PROPERTY

### UNIT

### TEST METHOD

### TYPICAL VALUE

• INDEX(200°C-5KG)	g/10min	ASTM D-1238	2.5
• STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
• VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	105
• ROCKWELL HARDNESS	-	ASTM D-785	SCALE/L70
• TENSILE STRESS AT BREAK	MPA	ASTM D-638	48
• ELONGATION AT BREAK	%	ASTM D-638	3
• TENSILE MODULUS	MPA	ASTM D-638	3200

\*All above mentioned data are typical values and not to be construed as real specifications.Users should confirm results by their own tests.For more information about guaranteed items, please refer to S.S.S.(standard sales specifications)

Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7%)(ASTM D-955) respectively. All test are carried out at 23°C , unless otherwise stated. If in grade reference the fourth digit is "1"(1161) ,indicates an external lubricants is included.

If the injection molding products quality is affected by moisture,granules of GPPS could be dried at 70°C for 2-4 hours.





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## POLYSTRENE HIPS

### HIPS7240 TYPICAL DATA SHEET

HIPS7240 is a very high impact polystyrene for the extrusion industry. This grade has been designed to diluted with crystal polystyrene. The good melt strength of this grade makes it particularly suited for deep-draw thermoforming. HIPS7240 is available in white color.

Applications:

darty sheet,cups,trays,egg boxes,general packaging,coextrusion with GPPS at industrial sheets.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MELT FLOW INDEX(200°C-5KG)	g/10min	ASTM D-1238	4.5
• STYRENE RESIDUAL MONOMER	PPM	CLG LABPSG004 (ATOFINA TEST METHOD)	<500
• VICAT SOFTENING POINT ( 50 °C/hr 1kg)	°C	ASTM D-1525	97
• ROCKWELL HARDNESS	-	ASTM D-785	SCALE/R65
• TENSILE STRESS AT YEILD	MPA	ASTM D-638	23
• TENSILE STRESS AT BREAK	MPA	ASTM D-638	21
• ELONGATION AT BREAK	%	ASTM D-638	60
• TENSILE MODULUS	MPA	ASTM D-638	1950
• IZOD IMPACT	KJ/M2	ASTM D-256	11

\* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications)

Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7%)(ASTM D-955) respectively. All test are carried out at 23°C , unless otherwise stated. If in grade reference the fourth digit is "1"(7241) ,indicates an external lubricants is included.





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POLYPROPYLENE

### HP550J TYPICAL DATA SHEET

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MFR @230°C, 2.16 kg	gr/10min	D1238/L	3
• Flexural Modulus	MPa	D790	1350
• Notched Izod Impact @23°C	J/m	D256	35
• Tensile Strength @Yield	MPa	D638	35
• Elongation @Yield	%	D638	12
• Vicat Softening Point, 10N	°C	D1525	156
• HDT (0.46N/mm <sup>2</sup> )	°C	D648	94
• Rockwell Hardness	R.Scale	D785	102
• Oven Aging @150°C	Hours	D3012	360

#### Main Application & Characteristics:

Moplen HP550J is a polypropylene homo-polymer particularly suitable for the extrusion of sheet for thermoforming, film yarn, and monofilament. Moplen HP550J combines outstanding processability with good mechanical properties.

Moplen HP550J is designed to produce stiff sheet for high-quality thermoforming, such as vending cups, packaging for dairy products, and trays for fruit, biscuits, and chocolates.

Moplen HP550J is also particularly suitable for producing film yarn, with both cast and tubular processes. Textile film yarns with a denier count of not more than 1100 to 1200 are used for the production of carpet backings, bags, industrial fabrics, mats, and artificial grass. Film yarn with a denier count ranging from 3000 to 28000 is used for baler twines, packaging twines, and ropes. Moplen HP550J is also well-suited for the production of monofilament used, for instance, in brush and broom filling and technical applications.

Another typical application of Moplen HP550J is the extrusion of nets for various purposes.

- Moplen HP550J is suitable for food contact.





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POLYPROPYLENE

### HP552R TYPICAL DATA SHEET

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
• MFR @230°C, 2.16 kg	gr/10min	D1238/L	25
• Flexural Modulus	MPa	D790	150
• Notched Izod Impact@23°C	J/m	D256	0 30
• Tensile Strength@Yield	MPa	D638	32
• Elongation@Yield	%	D638	13
• Vicat Softening Point,10N	°C	D1525	152
• HDT(0.46N/mm2)	°C	D648	94
• Rockwell Hardness	R.Scale	D785	100
• Oven Aging@150°C	Hours	D3012	150

Values shown are averages & are not to be considered as product specifications.

Moplen HP552R is a high melt flow homo-polymer polypropylene for the production of CF, BCF and staple fibres at medium to high spinning speeds. Moplen HP552R with an excellent anti-gas fading package offers a high homogeneity, stable extrusion and excellent processability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough and resilient fibres. Moplen HP552R is suitable for low denier staple fibres for non-woven fabrics, diapers, medical-sanitary applications and wipes. Another typical application is high tenacity continues filament for straps for backpacks, handles for big bags and safety belts. Continues filament with high tenacity is used for upholstery, sportswear and heavy duty clothing. Moplen HP552R is also suited for the production of bulked continues filament for thermobonding and carpet face yarns.

\* Moplen HP552R is suitable for food contact.







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CARBON BLACK

CARBON BLACK TYPICAL DATA SHEET

Specification	N-220 V5	N-234 V-7H	N-326 R-300	N-339 VM	N-347 V-3H	N-375 V-3	N-539 S-50	N-550 S-50	N-660 SV	N-772 R-SRF
Tint	IRB3: 106-119	IRB3: 108-120	IRB3: 105-117	IRB3: 105-117	IRB3: 98-108	IRB3: 106-118	IRB3: 60-70	IRB3: 58-68	IRB3: 52-65	IRB3: 60-70
Iodine-No (mg/g)	116-126	115-125	77-87	85-95	85-95 on medium	86-94	39-47	39-47	32-40	25-35
N2 Surface Area (m2/g)	100-115	100-115	75-85	91-101	85-95	95-105	37-45	37-45	30-40	20-36
D.B.P Absorption (ml/100g)	113-125	119-129	103-115	118-128	109-119	106-116	40-46	40-46	37-43	25-27
Ash (PT - Max)	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0
Volatile Matter (PT - Max)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Sulphur (PT - Max)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Toluene Extract (PT - Max)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene Solvent Discol (T% - Min)	80	88	80	80	88	80	70-99	70-99	70-99	70-99
Density (lb/ft <sup>3</sup> )	20-23	18-22	26.5-30	22-25	20-23	20-23	19-22	22.5-25.5	20-23	24-28
Heat Loss (PT - Max)	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.0
pH (Min)	-	-	-	-	-	-	-	-	-	-
Sieve Residue 325 Mesh (PT - Max)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Free Sulfur (PT - Max)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fines Content (PT - Max)	10	10	10	10	10	10	10	10	10	10



# LP Lavinya Plast



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