Lupolen 1800 S

Low Density Polyethylene LyondellBasell Industries



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Technical Data

Product Description

Lupolen 1800 S is a low density polyethylene (LDPE) resin used in injection molding and other processing methods. It exhibits high flowability, and good softness, toughness and dimensional stability. Lupolen 1800 S is delivered in pellet form and is not additivated. Lupolen 1800 S is used in applications such as toys, caps & closures, engineering parts, and sports and leisure equipment. Lupolen 1800 S is not intended for use in medical and pharmaceutical applications.

General			
Material Status	Commercial: Active		
Literature ¹	 Processing - Mold Shrink (English) Processing - PE Films (English) Processing - Polyolefin Injection Molding Guide (English) Technical Datasheet (English) 		
Search for UL Yellow Card	LyondellBasell IndustriesLupolen		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	
Features	Additive FreeFast Molding CycleGood Dimensional StabilityGood Flexibility	Good ProcessabilityGood ToughnessHigh FlowLow Density	Low Temperature Impact ResistanceSoft
Uses	CapsClosures	Engineering PartsSporting Goods	• Toys
Forms	 Pellets 		
Processing Method	Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.917 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ³	1.50 hr	ASTM D1693
Spiral Flow Length ⁴ (180°C, 2.00 mm)	650 mm	Internal Method
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	160 MPa	ISO 527-2
Tensile Stress (Yield)	8.00 MPa	ISO 527-2
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	45	ISO 868
Ball Indentation Hardness	13.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	80.0°C	ISO 306/A50
Melting Temperature (DSC)	106 °C	ISO 3146

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Tested in 10% nonionic surfactants

⁴ 1000 bar

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Low Density Polyethylene

LyondellBasell Industries



Where to Buy

Supplier

LyondellBasell Industries Wilmington, DE USA Telephone: 713-309-7200

Web: http://polymers.lyondellbasell.com/portal/site/basell/

Distributor

ALBIS Plastic

ALBIS PLASTIC is a pan-European distribution and compounding company. Contact ALBIS PLASTIC for availability of individual

products per country.

Telephone: +49-40-78105-0
Web: http://www.albis.com/
Availability: Europe

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: http://www.ultrapolymers.com/

Availability: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden,

Turkey, United Kingdom

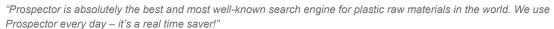


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- Birgit Elvardt Bader, Production Manager, Micotron

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Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



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- Kevin Chase, Owner & President, Chase Plastics



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