

Lupolen 1800 S

Low Density Polyethylene

LyondellBasell Industries

Message:

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 Information			
Features	Additive Free		
	Fast Molding Cycle		
	Good Dimensional Stability		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Flow		
	Low Density		
	Low Temperature Impact Resistance		
	Soft		
Uses	Caps		
	Closures		
	Compounding		
	Engineering Parts		
	Sporting Goods		
	Toys		
Forms	Pellets		
Processing Method	Compounding		
	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
Spiral Flow	65.0	cm	Internal Method
Environmental Stress-Cracking Resistance ¹	1.50	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 868
Ball Indentation Hardness	13.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160	MPa	ISO 527-2
Tensile Stress (Yield)	8.00	MPa	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	80.0	°C	ISO 306/A50
Melting Temperature (DSC)	106	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 230	°C	
NOTE			
1.	Tested in 10% nonionic surfactants		

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