

Lupolen 1800 U

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 1800 U is a low density polyethylene (LDPE) resin used in various processing methods such as injection molding and compounding. It exhibits very high flowability and a very good balance of softness and toughness, dimensional stability and good processing. Lupolen 1800 U is delivered in pellet form and is not additivated. It is used in a wide range of injection molding applications such as thin-wall packaging (TWIM) and housewares. Lupolen 1800 U is also used in the area of compounding for color and additive batches and as a viscosity modifier. Customers have reported that the high melt flow rate (MFR) of Lupolen 1800 U enables very good dispersion and homogenization at high loads with pigments and additives. Lupolen 1800 U is not intended for use in medical and pharmaceutical applications.

General Information			
Features	Additive Free		
	Fast Molding Cycle		
	Good Colorability		
	Good Dimensional Stability		
	Good Flow		
	Good Processability		
	Good Toughness		
	High Flow		
	Low Density		
	Low Temperature Flexibility		
Uses	Caps		
	Closures		
	Color Concentrates		
	Household Goods		
	Masterbatch		
	Packaging		
	Plastics Modification		
	Sporting Goods		
	Thin-walled Packaging		
	Toys		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	65	g/10 min	ISO 1133

Spiral Flow	100	cm	Internal Method
Environmental Stress-Cracking Resistance 1	1.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	180	MPa	ISO 527-2
Tensile Stress (Yield)	8.00	MPa	ISO 527-2
Tensile Strain (Break)	85	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ISO 306/A50
Melting Temperature (DSC)	105	°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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