

LG Chemical LUTENE-H BE0350 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Description: LUTENE-H BE0350 is an excellent material for blow-molded articles with high density and rigidity. It has good flow characteristics, high parison stability and impact resistance. Applications: Blow molded containers with capacities ranging a few milliliters up to 30liters Processing Condition: LUTENE-H BE0350 was developed for extrusion blow molding. From 20 to 25 in L/D ratio are suitable for processing. Depending on screw configuration, the cylinders are set to temperatures between 160 and 200Â°C. The melt temperature can range between 180 and 200Â°C. The ideal mold temperature should be between 6 and 40Â°C. Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUTENE-H-BE0350-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.958 g/cc	0.958 g/cc	ASTM D792
Environmental Stress Crack Resistance	40 hour	40 hour	F50; ASTM D1693
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 Â°C	0.25 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Yield	29.4 MPa @Thickness 3.20 mm	4270 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	800 % @Thickness 3.20 mm	800 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Modulus	1.13 GPa	164 ksi	15mm/min; ASTM D790
Izod Impact, Notched	4.41 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	8.27 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Melting Point	134 Â°C	273 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Â°C @Thickness 12.7 mm	169 Â°F @Thickness 0.500 in	ASTM D648

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 A °C @Load 1.00 kg	260 A °F @Load 2.20 lb	ASTM D1525

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