

LG Chemical LUTENE-H BE0400 HDPE

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

Material Notes:

Description: LUTENE - H BE0400 is an excellent materials for blow-molded articles with high density and rigidity. It has good flow characteristics and impact resistance. Applications: Blow molded containers with capacities ranging a few milliliters up to 20 liters, SheetCAS No. 9002-88-4Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUTENE-H-BE0400-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.957 g/cc	0.957 g/cc	ASTM D792
Environmental Stress Crack Resistance	50 hour	50 hour	F50; ASTM D1693
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 Å°C	0.25 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Yield	30.4 MPa @Thickness 3.20 mm	4410 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 600 % @Thickness 3.20 mm	>= 600 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Modulus	1.37 GPa	199 ksi	15mm/min; ASTM D790
Izod Impact, Notched	2.45 J/cm @Thickness 6.40 mm, Temperature 20.0 Å°C	4.59 ft-lb/in @Thickness 0.252 in, Temperature 68.0 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	133 Å°C	271 Å°F	DSC
Brittleness Temperature	<= -80.0 Å°C	<= -112 Å°F	ASTM D746

Processing Properties	Metric	English	Comments
Adapter Temperature	180 Å°C	356 Å°F	Ideal, Extrusion Blow Molding
	180 - 190 Å°C	356 - 374 Å°F	Extrusion Blow Molding

Processing Properties	Metric °C	English	Comments
	160 - 190 °C	320 - 374 °F	Extrusion Blow Molding
Melt Temperature	180 °C	356 °F	Ideal, Extrusion Blow Molding
	180 - 200 °C	356 - 392 °F	Extrusion Blow Molding

Descriptive Properties	Value	Comments
Barrel	160-185 °C	Intake Zone, Extrusion Blow Molding
	165 °C	Intake Zone, Ideal, Extrusion Blow Molding
	175-195 °C	Compression Zone, Extrusion Blow Molding
	180 °C	Compression Zone, Ideal, Extrusion Blow Molding
	180-200 °C	Metering Zone, Extrusion Blow Molding
	190 °C	Metering Zone, Ideal, Extrusion Blow Molding
Cross Head	165-195 °C	Extrusion Blow Molding
	180 °C	Extrusion Blow Molding

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