

LG Chemical LUTENE-H FE0070 HDPE

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

Material Notes:

LUTENE-H FE0070 is mainly intended for the extrusion of blown film with high mechanical properties for the manufacture of "T-Shirt" grocery sacks, can liners. Especially, LUTENE-H FE0070 resin can be relied upon for excellent performance under heavy load conditions. LUTENE-H FE0070 resin is a high molecular weight, high density polyethylene. The film produced from this resin characteristically exhibits high tensile strength, stiffness, impact strength and barrier properties. It can be down-gauged to as low as 10 micro-m. Applications: Merchandise bags, consumer trash bags, industrial and institutional liners. CAS No. 9002-88-4 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUTENE-H-FE0070-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.953 g/cc	0.953 g/cc	ASTM D1505
Thickness	10.0 microns	0.394 mil	
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	5.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	37.3 MPa	5410 psi	ASTM D822
Film Tensile Strength at Yield, TD	35.3 MPa	5120 psi	ASTM D822
Film Elongation at Break, MD	300 %	300 %	ASTM D822
Film Elongation at Break, TD	500 %	500 %	ASTM D822
Film Tensile Strength at Break, TD	57.9 MPa	8400 psi	ASTM D822

Thermal Properties	Metric	English	Comments
Melting Point	133 Â°C	271 Â°F	DSC
Crystallization Temperature	133 Â°C	271 Â°F	Melting; DSC
Vicat Softening Point	128 Â°C	262 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 230 Â°C	356 - 446 Â°F	
Blow-up Ratio (BUR)	3.0 - 5.0	3.0 - 5.0	

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