

Lutene® H FE0070

High Density Polyethylene

LG Chem Ltd.

Technical Data

Product Description

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.

Applications: Merchandise bags, consumer trash bags, industrial and institutional liners.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• LG Chem Ltd.		
Availability	• Asia Pacific • Europe	• North America • South America	
Features	• Barrier Resin • High Density	• High Impact Resistance • High Molecular Weight	• High Stiffness • High Tensile Strength
Uses	• Bags	• Film	• Liners
Processing Method	• Blown Film		

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.953 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.050 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	10 µm	
Tensile Strength		ASTM D882
MD: Yield	37.3 MPa	
TD: Yield	35.3 MPa	
MD: Break	59.8 MPa	
TD: Break	57.9 MPa	
Tensile Elongation		ASTM D882
MD: Break	300 %	
TD: Break	500 %	
Dart Drop Impact	250 g	ASTM D1709

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	128 °C	ASTM D1525
Melting Temperature	133 °C	DSC

Additional Information	Nominal Value Unit	Test Method
Tear Strength		ASTM D1922
MD	2.16 MPa	
TD	9.81 MPa	

Extrusion	Nominal Value Unit
Melt Temperature	180 to 230 °C

Extrusion Notes

Blow up ratio: 3 to 5

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.