

Lutene® H BE0400

High Density Polyethylene

LG Chem Ltd.

Technical Data

Product 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.

Main Applications

Blow molded containers with capacities ranging a few milliliters up to 20 liters, Sheet

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	• Good Flow • Good Impact Resistance	• High Density • High Rigidity	• Wide Molecular Weight Distribution
Uses	• Blow Molding Applications	• Containers	• Sheet
Processing Method	• Extrusion	• Extrusion Blow Molding	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.957 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance F50	50.0 hr	ASTM D1693

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield, 20°C)	30.4 MPa	ASTM D638
Tensile Elongation (Break, 20°C)	> 600 %	ASTM D638
Flexural Modulus	1370 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (20°C)	250 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	64	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -80.0 °C	ASTM D746
Melting Temperature	133 °C	DSC

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	160 to 185 °C
Cylinder Zone 3 Temp.	175 to 195 °C
Cylinder Zone 5 Temp.	180 to 200 °C
Adapter Temperature	175 to 190 °C
Melt Temperature	180 to 200 °C
Die Temperature	160 to 190 °C

Extrusion Notes

CrossHead temp: 165 to 195°C

Mold Temp: 5 to 40°C

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.