

Lutene® H ME5000

High Density Polyethylene

LG Chem Ltd.

Technical Data

Product Description

LUTENE-H ME5000 is mainly intended for injection molding of containers and bottle caps. It has good stress cracking resistance and high impact strength.

Main Applications:

Containers, dust bin, pails and bottle cap for mineral water.

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	• Narrow Molecular Weight Distribution	
Uses	• Caps	• Containers
Processing Method	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.952 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	26.5 MPa	ASTM D638
Tensile Elongation (Break)	> 500 %	ASTM D638
Flexural Modulus	735 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (20°C)	69 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	64	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	123 °C	ASTM D1525
Melting Temperature	130 °C	DSC

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.