

Lutene® H ME6000

High Density Polyethylene

LG Chem Ltd.

Technical Data

Product Description

LUTENE-H ME6000 is mainly intended for injection molding of crates. It has excellent mechanical properties and high impact strength.

Main Applications:

Transport and stacking crates, bottle crates.

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	• Crates	
Processing Method	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.961 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 5.0 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	29.4 MPa	ASTM D638
Tensile Elongation (Break)	> 1000 %	ASTM D638
Flexural Modulus	1080 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (20°C)	78 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	125 °C	ASTM D1525
Melting Temperature	134 °C	DSC

Injection	Nominal Value Unit
Processing (Melt) Temp	220 to 260 °C
Mold Temperature	10.0 to 60.0 °C
Injection Rate	Fast
Back Pressure	0.500 to 15.0 MPa

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.