

UNITHENE® LH608

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH608 is a high density polyethylene (HDPE) suitably used for injection molding. Typical applications are the injection molding of fruit crates, food containers, industrial items such as transportation crates, toys, and housewares.

UNITHENE LH608 possesses high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage.

General Information			
Features	Good Colorability Good Surface Finish High Density High ESCR (Stress Crack Resist.) High Hardness High Impact Resistance Low Shrinkage Low Warpage Medium Gloss		
Uses	Crates Food Containers Household Goods Industrial Applications Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	971	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	29.4	MPa	
Break	19.6	MPa	
Tensile Elongation (Break)	500	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	49	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Peak Melting Temperature	135	°C	ASTM D3418

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