

# UNITHENE® LH606

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH606 is a high density polyethylene (HDPE) suitably used for injection molding and filament applications. Typical applications are the injection molding of fruit crates, food containers, industrial items such as pallets, transportation crates, housewares, toys and the fine filament extrusion of mosquito nets.

UNITHENE LH606 possesses high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage.

UNITHENE LH606 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin. Printing on items molded from UNITHENE LH606 can be easily accomplished after a simple flame, chemical or electronic surface treatment.

General Information			
Features	Low warpage		
	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Gloss, Medium		
	Impact resistance, high		
	Workability, good		
	Compliance of Food Exposure		
	Low shrinkage		
	High hardness		
	Excellent appearance		
Uses	monofilament		
	Non-specific food applications		
	Industrial application		
	Household goods		
	Agricultural application		
	Food container		
	Toys		
	Web		
Processing Method	Filament extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0	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 (Compression Molded)	971	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	30.4	MPa	ASTM D638
Fracture	21.6	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Apparent Bending Modulus	971	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	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
Additional Information			
Torsional Stiffness, ASTM D1043: 12500 kg/cm <sup>2</sup>			

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#### Recommended distributors for this material

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