

UNITHENE® LH614

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH614(HDPE) having high melt flow index suitable used for injection molding and the applications are thin and smart housewares, toys, etc. UNITHENE LH614 possesses good processability, high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage. UNITHENE LH614 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 LH614 can be easily accomplished after flame, chemical or electronic surface treatment.

General Information			
Features	Low warpage		
	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Low shrinkage		
	High hardness		
	Excellent appearance		
Uses	Household goods		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	12	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)	981	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	30.4	MPa	ASTM D638
Fracture	14.7	MPa	ASTM D638
Tensile Elongation (Break)	170	%	ASTM D638
Apparent Bending Modulus	961	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746

Vicat Softening Temperature	126	°C	ASTM D1525
Peak Melting Temperature	135	°C	ASTM D3418
Additional Information			
Torsional Stiffness, ASTM D1043: 12100 kg/cm ²			

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