

UNITHENE® LH514

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH514 (HDPE) having high melt flow index suitable used for injection molding and the applications are thin and smart housewares, toys, etc. UNITHENE LH514 possesses good processability, high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage. UNITHENE LH514 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin.

General Information			
Features	Low warpage		
	Rigid, good		
	High density		
	Gloss, Medium		
	Impact resistance, high		
	Workability, good		
	Low shrinkage		
	High hardness		
	Excellent appearance		
Uses	Household goods		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	765	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	17.7	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Apparent Bending Modulus	814	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746

Vicat Softening Temperature	125	°C	ASTM D1525
Peak Melting Temperature	132	°C	ASTM D3418
Additional Information			
Torsional Stiffness, ASTM D1043: 9600 kg/cm ²			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

