

UNITHENE® LH606-13

High Density Polyethylene
USI Corporation

Message:

UNITHENE LH606-13 is a high density polyethylene (HDPE) suitably used for injection molding. The product used outdoors could stand age because containing UV absorber. Typical applications are the injection molding of beer crates, fruit crates, food containers, other industrial items such as pallets, transportation crate. UNITHENE LH606-13 possesses excellent weatherability, high impact strength, good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage, good processability. UNITHENE LH606-13 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 LH606-13 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		
	Impact resistance, high		
	Workability, good		
	Good weather resistance		
	Compliance of Food Exposure		
	Low shrinkage		
	High hardness		
	Excellent appearance		
	UV absorption		
Uses	Pallets		
	Non-specific food applications		
	Food container		
	Loading box		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ASTM D1505
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)	981	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	31.4	MPa	ASTM D638

Fracture	21.6	MPa	ASTM D638
Tensile Elongation (Break)	620	%	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/cm²

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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

