

UNITHENE® LH523

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH523 is a high density polyethylene (HDPE) especially developed for injection molding. In addition, it can be applied to powder coating after grinding.

High melt index of UNITHENE LH523 makes it exhibit excellent processability. Also, UNITHENE LH523 possesses superb impact strength and resistance to stress crack owing to its lower density.

LH523 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin. The products of LH523 can be easily printed after flame, chemical or electronic surface treatment.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High density		
	Impact resistance, high		
	Workability, good		
Uses	Coating application		
Processing Method	Coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	23	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)	745	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	22.6	MPa	ASTM D638
Fracture	28.4	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Apparent Bending Modulus	804	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	125	°C	ASTM D1525
Peak Melting Temperature	132	°C	ASTM D3418
Additional Information			
Torsional Stiffness, ASTM D1043: 9200 kg/cm ²			

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