

# UNITHENE® LH506

High Density Polyethylene

USI Corporation

## Message:

UNITHENE LH506 is a high density polyethylene (HDPE) developed for injection molding applications. Possessing outstanding impact strength and improved resistance to environmental stress,

UNITHENE LH506 is specially suitable for molding sport utensils and industrial cases.

UNITHENE LH506 could be easily pigmented to any color by either dry blending or extrusion homogenization of pigment into the resin.

## General Information

Features	High ESCR (Stress Cracking Resistance) High density Impact resistance, high
Uses	Industrial application Sporting goods Loading box

## Processing Method

### Injection molding

## Physical

Nominal Value	Unit	Test Method	
Density	0.955	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	5.5	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)	824	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	28.4	MPa	ASTM D638
Tensile Elongation (Break)	760	%	ASTM D638
Apparent Bending Modulus	902	MPa	ASTM D747

## Impact

Nominal Value	Unit	Test Method	
Notched Izod Impact	88	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: 10000 kg/cm<sup>2</sup>

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### Recommended distributors for this material

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