

UNITHENE® LH901

High Density Polyethylene

USI Corporation

Message:

UNITHENE LH901 is a high density polyethylene (HDPE) especially used for the extrusion of filament and sheet. A combination of excellent stretchability, less melt fracture, high tenacity and good processability makes it be suitably tailored for the fabrication of fishing nets, ropes, windows screen, upholstery, filters, woven sacks, canvas laminated cloth and various other industrial and ornamental knitted items. In addition, it can be applied to the manufacture of sheet, thin film and molded articles with good resistance to stress cracking.

UNITHENE LH901 can be easily pigmented to any color by either dry blending or melt blending of the masterbatch into the resin.

General Information	
Features	High ESCR (Stress Cracking Resistance)
	High density
	Workability, good
	Good stretchability
	Good coloring
Uses	Films
	Monochrome high toughness line
	monofilament
	Industrial application
	Sheet
	Rope
	Web
Processing Method	Film extrusion
	Extrusion
	Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	0.95	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)	726	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	29.4	MPa	ASTM D638
Tensile Elongation (Break)	1100	%	ASTM D638
Apparent Bending Modulus	1080	MPa	ASTM D747

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	540	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	131	°C	ASTM D3418
Additional Information			

Torsional Stiffness, ASTM D1043: 6100 kg/cm²

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