

# ASI POLYETHYLENE LP 502-01

High Density (HMW) Polyethylene

A. Schulman Inc.

## Message:

LP 502-01 Natural is a high molecular weight, high-density polyethylene copolymer, designed for blow molding of large parts where the finished product demands outstanding physical performance. This material has excellent processability and balanced end-use properties such as environmental stress crack resistance with superior impact.

General Information			
Features	Copolymer Good Impact Resistance Good Processability High ESCR (Stress Crack Resist.) High Molecular Weight		
Uses	Blow Molding Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding Extrusion Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	500	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	800	%	ASTM D638
Flexural Modulus - Tangent	1140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.2	°C	ASTM D648
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	132	°C	ASTM D1525
NOTE			

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|----|-----------|
| 1. | 51 mm/min |
| 2. | 51 mm/min |
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#### Recommended distributors for this material

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