

ASI POLYETHYLENE LP 390-01

High Density Polyethylene Copolymer

A. Schulman Inc.

Message:

LP 390-01 natural is a narrow molecular weight copolymer, high density polyethylene combining excellent impact strength with good environmental stress crack resistance.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	Narrow Molecular Weight Distribution		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
	FDA 21 CFR 177.1520(c) 3.2		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	5.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Flexural Modulus - Tangent	1210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 53	J/m	ASTM D256
Gardner Impact ³ (-40°C)	32.5	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-68.9	°C	ASTM D746
NOTE			
1.	51 mm/min		

2.	51 mm/min
3.	F50

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