

# ASI POLYETHYLENE LP 551-01

High Density Polyethylene Copolymer

A. Schulman Inc.

Message:

LP 551-01 is a narrow molecular weight copolymer, high-density polythylene combining excellent impact strength with good environmental stress crack resistance. This resin meets FDA Regulation 21 CFR 177.1520, 3.1 and 3.2. Applications include pails, housewares, heavy-duty crates, and industrial components.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	Narrow Molecular Weight Distribution		
Uses	Crates		
	Household Goods		
	Industrial Applications		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
	FDA 21 CFR 177.1520(c) 3.2		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm <sup>3</sup>	ASTM D792
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 <sup>1</sup> (Yield)	22.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	100	%	ASTM D638
Flexural Modulus - 1% Secant	896	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Gardner Impact <sup>3</sup> (-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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