

# ASI POLYETHYLENE LP 554-01

High Density Polyethylene

A. Schulman Inc.

Message:

LP 554-01 Natural is a narrow molecular weight homopolymer high-density polyethylene exhibiting toughness, rigidity and warpage resistance. This resin meets FDA Regulation 21 CFR 177.1520 (c) 2.1 and 2.2. Applications include crates, tote bins, cases and trays.

General Information			
Features	Food Contact Acceptable		
	Good Toughness		
	High Rigidity		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Warp Resistant		
Uses	Containers		
	Crates		
	Support Trays		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.963	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant	965	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256

Gardner Impact <sup>3</sup> (-40°C)	31.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.6	°C	ASTM D746
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	F50		

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