

ASI POLYETHYLENE LP 552-01

High Density Polyethylene Copolymer

A. Schulman Inc.

Message:

LP 552-01 is a U.L. approved narrow molecular weight copolymer high-density polyethylene combining good flow with excellent stiffness and cold temperature impact strength. It has good toughness and stress crack resistance. This resin meets FDA regulation CFR 177.1520 (c) 3.1. Applications include food storage containers, housewares, toys, overcaps, and closures. It also meets the requirement of Toyota Specification TSM 5518G-2.

General Information			
Features	Copolymer Food Contact Acceptable Good Flow Good Toughness High ESCR (Stress Crack Resist.) High Stiffness Low Temperature Impact Resistance Narrow Molecular Weight Distribution		
Uses	Caps Closures Food Containers Household Goods Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1 UL Unspecified Rating		
Forms	Pellets		
Processing Method	Compounding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.1	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus - 1% Secant	827	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Gardner Impact ¹ (-40°C)	176	J	ASTM D3056
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-73.3	°C	ASTM D746
NOTE			

1. F50

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