

A. Schulman LP551-01 Narrow Molecular Weight Copolymer, High-Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Impact Grade

Material Notes:

Description LP551-01 is a narrow molecular weight copolymer, high-density polyethylene combining excellent impact strength with good environmental stress crack resistance. Application Applications of LP 551-01 include pails, housewares, heavy-duty crates, and industrial components. This resin meets FDA Regulation 21 CFR 177.1250, 3.1 and 3.2. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-LP551-01-Narrow-Molecular-Weight-Copolymer-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.953 g/cc	0.953 g/cc	ASTM D792
ESCR 100% Igepal®	5.0 hour	5.0 hour	Condition B; ASTM D1693
Melt Index of Compound	7.0 g/10 min	7.0 g/10 min	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ASTM D2240
Tensile Strength, Yield	22.1 MPa	3200 psi	2"/min; ASTM D638
Elongation at Break	100 %	100 %	2"/min; ASTM D638
Flexural Modulus	0.896 GPa	130 ksi	1% secant; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Falling Dart Impact	32.5 J @Temperature -40.0 °C	24.0 ft-lb @Temperature -40.0 °F	F50; ASTM D3029

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-92.0 °C	-134 °F	ASTM D746

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