

A. Schulman LP642 Narrow Molecular Weight Copolymer, High-Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Description LP 642 is a narrow molecular weight copolymer, high-density polyethylene combining high flow for thin wall articles with excellent toughness. Application Applications of LP 642 include food containers, housewares, and beverage bottle base cups. LP 642 meets FDA Regulation 21 CFR 177.1520 (c) 3.1 Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-LP642-Narrow-Molecular-Weight-Copolymer-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.953 g/cc	0.953 g/cc	ASTM D1505
Melt Index of Compound	40 g/10 min	40 g/10 min	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Yield	22 %	22 %	ASTM D638
Flexural Modulus	0.700 GPa	102 ksi	ASTM D790
Falling Dart Impact	168 J @Temperature -40.0 °C	124 ft-lb @Temperature -40.0 °F	F50; ASTM D3056

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-100 °C	-148 °F	ASTM D746

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