

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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