

A. Schulman LB502-01 High Molecular Weight, High-Density Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

Description LP 502-01 Natural is a high molecular weight, high-density polyethylene copolymer, designed for blow molding of large parts where the finished product demands outstanding physical performance. This material has excellent processability and balanced end-use properties such as environmental stress crack resistance with superior impact. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-LB502-01-High-Molecular-Weight-High-Density-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D1505
ESCR 100% Igepal®	500 hour	500 hour	Condition A; ASTM D1693
Melt Index of Compound	11 g/10 min @Load 2.16 kg, Temperature 190 °C	11 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Yield	24.8 MPa	3600 psi	ASTM D638
Elongation at Break	800 %	800 %	2"/min; ASTM D638
Flexural Modulus	1.14 GPa	165 ksi	tangent; ASTM D790
Izod Impact, Notched	4.00 J/cm	7.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.2 °C	162 °F	ASTM D648
Vicat Softening Point	270 °C	518 °F	ASTM D1525

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