

A. Schulman LP544-01 High-Density Copolymer Polyethylene

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

Material Notes:

Description LP 544-01 is a high-density copolymer polyethylene with exceptional ESCR and crush strength combined with good processability for applications including telecommunication ducting, thermoformed parts and profile extrusions. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-LP544-01-High-Density-Copolymer-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.946 g/cc	0.946 g/cc	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Condition A; ASTM D1693
Melt Index of Compound	0.25 g/10 min @Temperature 190 °C	0.25 g/10 min @Temperature 374 °F	ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	22.1 MPa	3200 psi	2"/min; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	2"/min; ASTM D638
Flexural Modulus	0.827 GPa	120 ksi	2% secant; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.6 °C	150 °F	ASTM D648

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