

Polymer Industries Densetec HDPE Rod

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

Material Notes:

Polymer Industries' HDPE Rod exhibits all the durable qualities found in Densetec HDPE Sheet, making it perfect for that industrial application where sheet stock is not suitable. The HDPE Rod is available in natural and black with minimum requirements. The HDPE Rod can be cut to any length desired and is easily fabricated. Information provided by Polymer Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Industries-Densetec-HDPE-Rod.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D1505
Water Vapor Transmission	6.00 g/m ² /day	0.386 g/100 in ² /day	
Oxygen Transmission Rate	0.300 cc/m ² /day	0.0193 cc/100 in ² /day	ASTM D1434
Thickness	25.4 microns	1.00 mil	
Melt Index of Compound	0.28 g/10 min @Load 2.16 kg, Temperature 190 °C	0.28 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Film Tensile Strength at Yield, MD	21.0 MPa	3050 psi	ASTM D882
Film Tensile Strength at Yield, TD	23.0 MPa	3340 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Secant Modulus, MD	0.590 GPa	85.6 ksi	1% Secant; ASTM D882
Secant Modulus, TD	0.680 GPa	98.6 ksi	1% Secant; ASTM D882
Coefficient of Friction	0.30	0.30	ASTM D1894
Elmendorf Tear Strength, MD	1.00 g/micron	25.4 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	23.0 g/micron	584 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ASTM D882
Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 °C	250 °F	ASTM D1525

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