

Polymer Industries Densetec HDPE Pipe Grade

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

Material Notes:

The material displays improved performance characteristics in a variety of piping applications. In addition the material is UV stabilized and ideal for use in demanding outdoor applications. It retains its properties between 220°F and 180°F, and resists most chemicals. It is also NSF certified under Standard 61 to be used in potable water piping systems. Information provided by Polymer Industries.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D1505
High Load Melt Index	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 100 hour	>= 100 hour	Slow Crack Growth; ASTM F1473
Tensile Strength, Yield	22.0 MPa	3190 psi	2in (50mm) per min.; ASTM D638 Type 4
Elongation at Break	800 %	800 %	2in (50mm) per min.; ASTM D638 Type 4
Flexural Modulus	0.760 GPa	110 ksi	2% Secant; ASTM D3350
	0.960 GPa	139 ksi	Tangent; ASTM D790
Hydrostatic Design Basis	5.50 MPa	798 psi	140°F; ASTM D2837
	11.0 MPa @Temperature 23.0 °C	1600 psi @Temperature 73.4 °F	ASTM D2837

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

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