

Formosa Plastics Formolene® HP4000 Pipe HDPE

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

Material Notes:

High Density Hexene Copolymer Formolene® HP4000 is a high performance copolymer that is designed for the most demanding requirements of non pressure pipe applications. It has good long-term hoop strength performance, very high melt strength, and outstanding toughness even at low temperatures. Formolene® HP4000 meets all requirements of ASTM D4976 – PE 235. Formolene® HP4000 meets the requirements of ASTM F 2160 for use in solid wall HDPE conduit based pipe. Applications: Telecommunications Conduit and Non-Pressure Pipe Applications Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HP4000-Pipe-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Condition A, B, C, F₅₀; ASTM D1693
Melt Flow	0.16 g/10 min @Load 2.16 kg, Temperature 190 °C	0.16 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.5 MPa	5000 psi	2" (50mm) per min, Type IV; ASTM D638
Tensile Strength, Yield	22.1 MPa	3200 psi	2" (50mm) per min, Type IV; ASTM D638
Elongation at Break	>= 500 %	>= 500 %	2" (50mm) per min, Type IV; ASTM D638
Flexural Modulus	0.758 GPa	110 ksi	ASTM D3350
	0.965 GPa	140 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -90.0 °C	<= -130 °F	ASTM D746

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