

Formosa Plastics Formolene® HP4306 Pipe HDPE (discontinued **)

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

Material Notes:

High Density Hexene Copolymer Formolene® HP4306 is a high performance copolymer that is designed for the most demanding requirements of pressure pipe applications. It is designed specifically for larger diameter and thick wall pipes where excellent melt strength is required, but can be used successfully on all diameters and wall thicknesses. It has good long-term hoop strength performance, very high melt strength, and outstanding toughness even at low temperatures. Formolene® HP 4306 meets all requirements of ASTM D4976 – PE 235. When blended with the approved color concentrates, Formolene® HP4306 has a cell class of 345464C per ASTM D3350-05, is listed by PPI as a PE3608 material with HDB's of 1,600 psi @ 73°F and 800 psi @ 140°F and meets the requirements of NSF Standard 14/61 for use with potable water. Formolene® HP4306 also qualifies as a PE3408 material under the old ASTM D3350-02a and PPI standards.

Formolene® HP4306 also qualifies as a PE80 material per ISO 9080. Applications: Potable Water; Oil and Gas Gathering and Distribution; Chemical, Industrial and Mining; Sewer Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HP4306-Pipe-HDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	Natural; ASTM D1505
	0.955 g/cc	0.0345 lb/in ³	Black; ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Condition A, B, C, F;₅₀; ASTM D1693
Melt Flow	0.060 g/10 min	0.060 g/10 min	Condition E; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
High Load Melt Index	8.0 g/10 min	8.0 g/10 min	Condition F; ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	150 hour	150 hour	Slow Crack Growth; ASTM F1473
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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