

Formosa Plastics Formolene® HP5221 Pipe HDPE (discontinued **)

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

Material Notes:

High Density Hexene Copolymer Formolene® HP5221 is a high performance copolymer that is designed for the most demanding requirements of corrugated pipe applications. Formolene® HP5221 meets the requirements of the PPI third party certification program for use in AASHTO M 294 corrugated pipe. Applications: Highway Drainage Pipe, Agricultural Drainage Pipe and Storm Water Drainage Pipe. Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HP5221-Pipe-HDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 24 hour	>= 24 hour	ESCR by NCLS; ASTM F2136
ESCR 100% Igepal®	>= 150 hour	>= 150 hour	Condition B, F₅₀; ASTM D1693
Melt Flow	0.10 g/10 min @Load 2.16 kg, Temperature 190 °C	0.10 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238
High Load Melt Index	21 g/10 min @Load 21.6 kg, Temperature 190 °C	21 g/10 min @Load 47.6 lb, Temperature 374 °F	Condition F; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.9 MPa	3900 psi	2" (50mm) per min, Type IV; ASTM D638
Elongation at Break	>= 600 %	>= 600 %	2" (50mm) per min, Type IV; ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790

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

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