

Formosa Plastics Formolene® HL3812 Film (Hexene) HDPE

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

Material Notes:

Medium Density Polyethylene Formolene® HL3812 is a high molecular weight hexene copolymer resin that is tailored specifically for geomembrane applications. The resin provides an excellent balance of ESCR properties, broad fusion range, excellent melt strength and good overall processability. Applications: Landfill Liners, Gasoline and Chemical Tank Containment Liners, Tunnel Moisture Barriers and Mine Tailing Collection Projects. Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HL3812-Film-Hexene-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	SP-NCTL; ASTM D5397
ESCR 100% Igepal®	>= 1500 hour	>= 1500 hour	Condition C, F₅₀; ASTM D1693
ESCR 10% Igepal®	>= 1500 hour	>= 1500 hour	Condition B, F₅₀; ASTM D1693
Melt Flow	0.080 g/10 min @Load 2.16 kg, Temperature 190 °C	0.080 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	12 g/10 min @Load 21.6 kg, Temperature 190 °C	12 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	17.9 MPa	2600 psi	2" (50mm) per min, Type IV; ASTM D638
Elongation at Break	850 %	850 %	2" (50mm) per min, Type IV; ASTM D638
Flexural Modulus	0.827 GPa	120 ksi	Tangent – 16:1 span:depth, 0.5 in./min.; ASTM D790
Tensile Impact Strength	504 kJ/m ²	240 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	59.0 °C	138 °F	Method A; ASTM D648

Vicat Softening Point Thermal Properties	117 °C Metric	243 °F English	ASTM D648 Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

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