



Formosa Plastics®

Formolene® HDPE

Formolene® HL3721

Medium Density Polyethylene

Formolene® HL3721 is a high molecular weight hexene copolymer resin tailored specifically for cast extrusion production of geomembrane films. The resin provides an excellent balance of ESCR properties, broad fusion range, excellent melt strength and good overall process-ability.

Suggested Applications:

Landfill Liners

Gasoline and Chemical Tank Containment Liners

Tunnel Moisture Barriers

Mine Tailing Collection Projects

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English		SI	
		UNIT	VALUE	UNIT	VALUE
Density	D1505	g/cc	0.937	g/cc	0.937
Melt Index, Condition E, 190°C/21.6 kg	D1238	g/10 min	21.0	g/10 min	21.0
Tensile Yield Strength 2 in. per min., Type IV bar	D638	psi.	2,900	MPa	20
Elongation at Break 2 in. per min., Type IV bar	D638	%	800	%	800
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in./min.	D790	psi.	120,000	MPa	830
ESCR					
Condition B, (10% Igepal)F ₅₀	D1693	h	>1,500	h	>1,500
Condition C, (100% Igepal) F ₅₀	D1693	h	>1,500	h	>1,500
SP-NCTL	D5397	h	>900	h	>900
Durometer Hardness, Type D (Shore D)	D2240	Shore D	57	Shore	57
Vicat Softening Temperature, Loading 1, Rate A	D648	°F	221	°C	105
Heat Deflection Temperature, 66 psi., Method A	D648	°F	137	°C	58
Brittleness Temperature, Type A, Type I specimen	D746	°F	<-103	°C	<-75
Tensile Impact Type S Bar	D1822	Ft-lb/in ²	190	KJ/m ²	400

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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