

Formolene® HL3812

Medium Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

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.

Suggested Applications:

Landfill Liners

Tunnel Moisture Barriers

Gasoline and Chemical Tank Containment Liners

Mine Tailing Collection Projects

General Information			
Features	Good Melt Strength		
	Good Processability		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Geo Membranes		
	Liners		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	12	g/10 min	
Environmental Stress-Cracking Resistance			
10% Igepal, F50	> 1500	hr	ASTM D1693B
100% Igepal, F50	> 1500	hr	ASTM D1693C
SP-NCTL	> 1.4	month	ASTM D5397
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	17.9	MPa	ASTM D638
Tensile Elongation ² (Break)	850	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	827	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ⁴	504	kJ/m²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	58.9	°C	ASTM D648

Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	47.2	°C	ASTM D1525 ⁵

NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Type S		
5.	Rate A (50°C/h), Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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