



# Formolene® HL3812

(Produced using licensor formulation for K306)\*  
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.

### Suggested Applications:

- Landfill Liners
- Tunnel Moisture Barriers
- Gasoline and Chemical Tank Containment Liners
- Mine Tailing Collection Projects

### Nominal Physical Properties:

PROPERTY**	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.938	g/cc	0.938
Melt Index, Condition E, 190°C/2.16 kg	D1238	g/10 min.	0.08	g/10 min.	0.08
190°C/21.6 kg (HLMI)	D1238	g/10 min.	12.0	g/10 min.	12.0
Tensile Yield Strength 2 in. per min., Type IV bar	D638	psi.	2,600	MPa	18
Elongation at Break 2 in. per min., Type IV bar	D638	%	850	%	850
Flexural Modulus, Tangent – 16:1 span:depth, 0.5 in./min.	D790	psi.	120,000	MPa	830
ESCR Condition B (10% Igepal), F <sub>50</sub>	D1693	h	>1,500	h	>1,500
Condition C (100% Igepal), F <sub>50</sub>	D1693	h	>1,500	h	>1,500
SP-NCTL	D5397	h	>1,000	h	>1,000
Durometer Hardness, Type D (Shore D)	D2240	Shore D	65	Shore D	65
Vicat Softening Temperature, Loading 1, Rate A	D648	° F	117	° C	243
Heat Deflection Temperature, 66 psi., Method A	D648	° F	138	° C	59
Brittleness Temperature, Type A, Type I specimen	D746	° F	<-103°F	° C	<-75°C
Tensile Impact Type S Bar	D1822	ft-lb/in <sup>2</sup>	240	KJ/m <sup>2</sup>	500

\* Our licensor does not warrant or imply that this product meets their specifications for K306

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ISO 9001:2008  
FS 70459  
FM 31429



ISO 14001:2004  
EMS 35710

