

Mapolene 3812 is a high molecular weight medium density polyethylene resin tailored specifically for geomembrane applications. The resin provides an excellent balance of ESCR properties, broad fusion range, excellent melt strength and good overall processability.

Mapolene 3812

Polyethylene Geomembrane / Landfill Liner	HLMI	12
	Density	.938

Properties ¹	ASTM	Units	Value
HLMI (190°C/21.6 kg)	ASTM D1238	g/10 min	12
Density	ASTM D1505	g/cm ³	.938
Tensile Strength @ Yield	ASTM D638	psi	2600
Elongation @ Break	ASTM D638	%	850
Flexural Modulus	ASTM D790	psi	120,000
ESCR, Condition C (100% Igepal), F50	ASTM D1693	h	>1,500
SP-NCTL	ASTM D5397	h	>1000
Durometer Hardness, Type D (Shore D)	ASTM D2240		65
Vicat Softening Temperature	ASTM D1525	°F	243
Heat Deflection Temperature, 66 psi, Method A	ASTM D648	°F	138
Brittleness Temperature, Type A, Type I spec	ASTM D746	°F	-103

This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

¹Properties will vary and are not to be used for specification purposes.