Canada 1.855.530.4226
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www.layfieldgroup.com

GEOFLEX™

GeoFlex™ geomembranes combine flexibility, elongation, and cold temperature resistance.

Layfield's GeoFlex™ uses next-generation catalyst technology that has been optimized to deliver flexibility with UV and chlorine resistance. GeoFlex™ geomembrane is a highly flexible lining material making detail work such as building tanks, attaching to structures, or creating corners an easy task. In addition to flexibility, GeoFlex™ has excellent resistance to both Slow Crack Growth (SCG) and Environmental Stress Cracking (ESCR) and is suitable for water and water-based effluent storage. GeoFlex™ exhibits high impact strength and puncture resistance and has outstanding resistance to low temperatures. Layfield's registered quality management system ensures superior consistency of product quality and reproducible performance. GeoFlex™ meets GRI GM-17 requirements and suitable in a variety of primary and secondary containment applications.

The higher yield elongation of GeoFlex™ makes it possible to fabricate larger panels at 60 mil thickness. We have successfully fabricated 60mil GeoFlex™ up to 10,000 sq.f. in one single panel.

GEOFLEX™

Flexible Lining Material

GeoFlex™ Installation

Layfield's GeoFlex™ 30 mil, 40 mil, and 60 mil geomembranes can be prefabricated into large panels (up to 30,000 square feet at 30 mil). The prefabricated panel is accordion folded, rolled on a core, and delivered to the job site. Local labor forces can be used to unroll and unfold the panel, while on larger projects, Layfield installation forces can be used.

The primary method of field welding GeoFlex™ is hot wedge welding technology. Field wedge welding provides strong seams and fast installations on large projects. GeoFlex™ can be repaired using handheld heat welding techniques or extrusion welding.

Test Method	Test Method	GeoFlex™ Typical[1] Material Properties		
		GeoFlex™ 30 (U)	**GeoFlex™ 40 (U)**	**GeoFlex™ 60 (U)**
Thickness (min avg)	D5199	30 mil / 0.75 mm	40 mil / 1.0 mm	60 mil / 1.50 mm
Thickness, Lowest Individual value of 10	D5199	27 mil / 0.67 mm	36 mil / 0.91 mm	54 mil / 1.37 mm
Sheet Density (max)	D792	<0.939 g/cc	<0.939 g/cc	≤0.939 g/cc
Tensile Properties (min. avg) ASTM D 6693; Type IV Die	Tensile@Break	130 ppi / 25.5 kN/m	190 ppi / 33.5 kN/m	275 ppi / 48.5 kN/m
	Elongation@Break	800%	800%	800%
Tear Resistance (min.avg)	D1004	16 lbs / 70 N	22 lbs / 98 N	33 lbs / 146 N
Puncture Resistance (min. avg)	D4833	50 lbs / 222 N	70 lbs / 311 N	90 lbs / 400 N
Carbon Black Content	D1603	2.0 - 3.0%	2.0 - 3.0%	2.0 - 3.0%
Carbon Black Dispersion	D5596	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2
Axi-Symmetric Strain, (typical)	D5617	50%	50%	50%
High Pressure Oxidative Induction Time (HPOIT)	D5885	400 mins	400 mins	400 mins
Low Temperature Impact Resistance	D746 (Tested Value)	-69 F / -56 C	-69 F / -56 C	-69 F / -56 C
UV Resistance Strength retained after 1600 hr	D7238/D638 (Tested Value)	90%	90%	90%
Hydraulic Conductivity	F1249	3 x 10^{-13} cm/sec	3 x 10^{-13} cm/sec	Tested on 40 mil
Methane Transmission, (mL(STP)/m2/day/atm)	D1434	Tested on 40 mil	557	Tested on 40 mil