

High Strength & Chemical Resistant

XR-5

FEATURES

- Excellent chemical resistance
- XR-5 is extremely durable and reinforced, yet flexible
- Superior UV ratings
- Available in custom sized panels
- Low thermal expansion and contraction

XR-5 is highly resistant and non-degradable with extreme puncture and tear resistance, as well as dimensional stability under high loads and temperature fluctuations.

Colorado Lining can fabricate XR-5 in custom sized panels or facilitate a full installation with one of our certified installation crews. We want to work with you to make your job a success.

APPLICATIONS

- Secondary fuel containment
- Floating covers
- Oil booms
- Electrical substations
- Potable water storage
- Baffle curtains
- Process wastewater
- Leachate ponds

FOR MORE INFO CALL 800.524.8672



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VERSION UPDATE 02.21.17

XR-5 Material Information

Property	Test Method	8130 XR-5	8138 XR-5
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5oz/yd ² nominal (220 g/m ² nominal)	Polyester 6.5oz/yd ² nominal (220 g/m ² nominal)
Thickness	ASTM D 751	30.0 mils nominal (0.76 mm min.)	40.0 mils nominal (1 mm min.)
Weight	ASTM D 751	30.0 ± 2.0 oz/yd ² (1017 ± 2 g/sq. m)	38.0 ± 2.0 oz/yd ² (1288 ± 2 g/sq. m)
Tear Strength	ASTM D 751 Trap Tear	40/55 lb. min. (175/245 N min.)	40/55 lb. min. (175/245 N min.)
Breaking Yield Strength	ASTM D 751 Grab Tensile	550/550 lb. min. (2,448/2,448 N min.)	550/550 lb. min. (2,448/2,448 N min.)
Low Temperature Resistance	ASTM D 2136 4hrs - 1/8 in Mandrel	Pass @ -30°F (Pass @ -34°C)	Pass @ -30°F (Pass @ -34°C)
Dimensional Stability	ASTM D 1204 212°F/100°C - hr	0.5% max. each direction	0.5% max. each direction
Hydrostatic Resistance	ASTM D 751 Method A	800 psi min. (5.51 MPa min.)	800 psi min. (5.51 MPa min.)
Blocking Resistance	ASTM D 751 180°F/82°C	#2 Rating max.	#2 Rating max.
Adhesion - Ply	ASTM D 413 Type A	15 lb./in. min. or film tearing bond (13 daN/5 cm min. or FTB)	15 lb./in. min. or film tearing bond (13 daN/5 cm min. or FTB)
Adhesion - Heat Welded Seam	ASTM D 751 Dielectric Weld	40 lb./2in. min. (17.5 daN/5 cm min.)	40 lb./2in. min. (17.5 daN/5 cm min.)
Dead Load Seem Strength	ASTM D 751 4-hour test	Pass 240 lb./in. @ 70°F (Pass 1,068 N/2.54 cm @ 21°C) Pass 120 lb./in. @ 160°F (Pass 534 N/2.54 cm @ 70°C)	Pass 240 lb./in. @ 70°F (Pass 1,068 N/2.54 cm @ 21°C) Pass 120 lb./in. @ 160°F (Pass 534 N/2.54 cm @ 70°C)
Bonded Seam Strength	ASTM D 751 Procedure A Grab Test Method	550 lb. min. (2,450 N min.)	550 lb. min. (2,450 N min.)
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1kg load	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss
Weathering Resistance	ASTM G 153	8,000 hours min. with no appreciable change or stiffening or cracking of coating	8,000 hours min. with no appreciable change or stiffening or cracking of coating
Water Absorption	ASTM D 471, Section 12 7 days	0.025 kg/m ² max. @ 70°F/21°C 0.14 kg/m ² max. @ 212°F/100°C	0.025 kg/m ² max. @ 70°F/21°C 0.14 kg/m ² max. @ 212°F/100°C
Wicking	ASTM D 751	1/8 in. max. (0.3 cm max.)	1/8 in. max. (0.3 cm max.)
Bursting Strength	ASTM D 751 Ball Tip	750 lb. min. (3,330 N min.)	750 lb. min. (3,330 N min.)
Puncture Resistance	ASTM D 4833	275 lb. min. (1,200 N min.)	275 lb. min. (1,200 N min.)
Coefficient of Thermal Expansion/Contraction	ASTM D 696	8 x 10 ⁻⁶ in/in/°F max. (1.4 x 10 ⁻⁵ cm/cm/°C ma.)	8 x 10 ⁻⁶ in/in/°F max. (1.4 x 10 ⁻⁵ cm/cm/°C ma.)
Puncture Resistance	FTMS 101C Method 2031	350 lb. approx. (1550N approx.)	350 lb. approx. (1550N approx.)
Enviornmental/Chemical Resistance Properties	ASTM D 741 7-day Total Immersion with Exposed Edges	See Chemical Resistance Table	See Chemical Resistance Table

FOR SALES INFORMATION

Corporate Headquarters - Denver: 800.524.8672 / 303.841.2022

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CLI has over 35 years of experience in the geosynthetics industry, and we offer custom Design-Build solutions that are cost effective and reliable. Our services include Geomembrane and Spray Coating Materials, Custom Fabrication, and Certified Installation.