COLORADO LINING INTERNATIONAL

CO: 800.524.8672
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www.coloradolining.com

XR-5

XR-5 is a high strength, fuel resistant liner.

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.

Products & Features:

- Excellent Chemical Resistance
- Fuel Resistance
- Oil Resistance
- High Temperature Resistance
- Flexible
- UV Stable
- Reinforced - Extremely Durable
- Available In Custom Sized Panels
- High Strength

Uses & Applications:

- Secondary Fuel
- Containment
- Floating Covers
- Industrial Jet Fuel
- Electrical Substations
- Potable Water Storage
- Baffle Curtains
- Clearwells

- ***Project Photo: Olympic View Sanitary Landfill in Port Orchard, OR***
- ***Leachate Cover***
- ***54,000 SF 45 Mil XR-5***

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XR-5
Product Data Sheet

Property	Test Method	8130 XR-5	8138 XR-5	6730 XR-5
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5 oz/yd² Nominal (220 g/m² Nominal)	Polyester 6.5 oz/yd² Nominal (220 g/m² Nominal)	Polyester 7.0 oz/yd² Nominal (235 g/m² Nominal)
Thickness	ASTM D 751	30 mils Min. (0.75 mm Min.)	40 mils Nom. (1.0 mm Nom.)	30 mils Min. (0.75 mm Min.)
Weight	ASTM D 751	30.0 +- 2 oz/sq yd (1020 +- 70 g/sq m)	38.0 +- 2 oz/sq yd (1290 +- 70 g/sq m)	30.0 +- 2 oz/sq yd (1020 +- 70 g/sq m)
Tear Strength	ASTM D 4533 Trap Tear	35/35 lbs. Min. (155/155 N Min.)	35/35 lbs. Min. (155/155 N Min.)	
Breaking Yield Strength	ASTM D 751 Grab Tensile, Procedure A	550/550 lbs. Min. (2450/2450 N Min.)	550/550 lbs. Min. (2450/2450 N Min.)	600/550 lbs. Min. (2670/2450 N Min.)
Low Temperature Resistance	ASTM D 2136 4hrs-1/8" mandrel	Pass @ -30 deg F (Pass @ -35 deg C)	Pass @ -30 deg F (Pass @ -35 deg C)	Pass @ -30 deg F (Pass @ -35 deg C)
Dimensional Stability	ASTM D 1204 100 deg C-1 hr.	1.5% Max. each direction	1.5% Max each direction	1.5% Max each direction
Hydrostatic Resistance	ASTM D 751 Method A	800 psi Min. (540 N/sq cm Min.)	800 psi Min. (540 N/sq cm Min.)	800 psi Min. (540 N/sq cm Min.)
Blocking Resistance	ASTM D 751 180 deg F / 82 deg C	#2 Rating Max.	#2 Rating Max.	#2 Rating Max.
Adhesion-Ply	ASTM D 413 Type A	15 lbs./in. Min. or Film Tearing Bond (65 N/2.5 cm Min. or FTB)	15 lbs./in. Min. or Film Tearing Bond (65 N/2.5 cm Min. or FTB)	15 lbs./in. Min. or Film Tearing Bond (65 N/2.5 cm Min. or FTB)
Adhesion-Heat Sealed Seam	ASTM D 751 Dielectric Weld	35 lbs./2" Min. (150 N/5 cm Min.)	35 lbs./2" Min. (150 N/5 cm Min.)	35 lbs./2" (150 N/5 cm Min.)
Dead Load Seam Strength	ASTM D 751, 4-hour test	Pass 210 lbs/in@70 deg F (Pass 935 N/2.54 cm @21 deg C) Pass 105 lbs/in@ 160 deg F (Pass 465 N/2.54 cm @70 deg C)	Pass 210 lbs/in @ 70 deg F (Pass 935 N/2.54 cm @ 21 deg C) Pass 105 lbs/in @ 160 deg F (Pass 465 N/2.54 cm @ 70 deg C)	
Bonded Seam Strength	ASTM D 751 Procedure A, Grab test method	550 lbs. Min. (2450 N Min.)	550 lbs.Min. (2450 N Min.)	550 lbs. Min. (2450 N Min.)
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1 kg Load	2000 Cycles Min. before Fabric exposure, 50 mg/100 cycles Max. Weight Loss	2000 Cycles Min. before Fabric exposure, 50 mg/100 cycles Max. Weight Loss	2000 Cycles Min. before Fabric exposure, 50 mg/100 cycles Max. Weight Loss
Weathering Resistance	Carbon-Arc ASTM G 153	8000 hours Min. with no appreciable changes or stiffening or cracking of coating	8000 hours Min. with no appreciable change or stiffening or cracking of coating	8000 hours Min. with no appreciable change or stiffening or cracking of coating
Water Absorption	ASTM D 471, Section 12 7days	0.025 kg./sq m Max. @70˚ F/21˚ C 0.14 Kg/sq m Max @ 212˚ F/100˚ C	0.025 kg/sq m Max. @ 70˚ F/21˚ C 0.14 kg/sq m Max @ 212˚ F/100˚ C	0.025 kg./sq m Max. @70˚ F/21˚ C 0.14 Kg/sq m Max @ 212˚ F/100˚ C
Wicking	ASTM D 751	1/8" Max (0.3 cm Max)	1/8" Max. (0.3 cm Max.)	1/8" Max. 0.3 cm Max.)
Bursting Strength	ASTM D 751 Ball Tip	650 lbs. Min. (2890 N Min.)	650 lbs. Min. (2890 N Min.)	
Puncture Resistance	ASTM D 4833	250 lbs. Min. 1100 N Min.	250 lbs. Min. 1100 N Min.	
Coefficient of Thermal Expansion/ Contraction	ASTM D 696	8 x 10^{4} in/in/deg F Max. (1.4 x 10^{3} cm/cm/deg C Max.)	8 x 10^{4} in/in/deg F Max. (1.4 x 10^{3} cm/cm/deg C Max.)	8 x 10^{4} in/in/deg F Max. (1.4 x 10^{4} cm/cm/deg C Max.)
Environmental/Chemical Resistant Properties		See Chemical Resistance Table, Page 8	See Chemical Resistance Table, Page 8	See Chemical Resistance Table, Page 8
Puncture Resistance	FTMS 101C Method 2031	350 lbs. (Approx.)	350 lbs. (Approx.)	
Cold Crack	ASTM D 2136 4 hrs, 1/8" mandrell	Pass @ -30˚ F/-34˚ C	Pass @ -30˚ F/-34˚ C	Pass @ -30˚ F/-34˚ C