

TECHNICAL DATA SHEET

**DESCRIPTION**

Permalon® Ply X-200 FR is a fire-retardant laminate with two layers of multi-axially oriented, linear low-density polyethylene. It is specifically engineered to provide high strength and durability in a lightweight material.

**PHYSICAL PROPERTIES AND TYPICAL VALUES**

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Weight	D-751	57 LB/1000 FT <sup>2</sup>	27.8 KG/100 M <sup>2</sup>
Thickness	D-2103	14 MIL	0.36 MM
1" Load @ Yield	D-882	19 LBF	85 N
1" Load @ Break	D-882	38 LBF	169 N
		2650 PSI	18.3 MPA
1" Elongation @ Break	D-882	350 %	350 %
Tongue Tear	D-2261	20 LBF	89 N
Trapezoidal Tear	D-4533	29 LBF	129 N
PPT Resistance	D-2582	40 LBF	178 N
Dart Impact Strength	D-1709	4.0 LBS	1.8 KG
Puncture Strength	D-4833	31 LBS	138 MPA
Permeance	E-96	0.028 Grain/Hr•Ft <sup>2</sup> •in.Hg	1.606 NG/(PA•S•M <sup>2</sup> )
Fire Retardancy	E-84	5 flame spread, 100 smoke developed	

**FEATURES AND BENEFITS**

- Passes NFPA 701 Test 2 (Large Scale) - "Standard Methods of Fire Tests for Flame-Resistant Textiles and Films".
- Classified as a Class 1, Class A according to UBC-42 and ASTM E-84.
- Multiple polyethylene layers and provide low permeability and resist punctures and tears.
- Flexibility and light weight allow for easy handling and quick installation.
- Custom fabrication is available to meet your exact specifications.



**OUR CUSTOMERS DON'T JUST** *cover their business,*  
**➔ THEY PROTECT IT**



## SUGGESTED APPLICATIONS

- Architectural vapor retarder for underslab, walls & ceilings and in roofing systems. Ideal for cold storage and high moisture areas.
- Floor covers, dust partitions and cleanroom enclosures.
- Temporary walls, plant dividers, building enclosures and containment tents.

## ORDERING INFORMATION

### AVAILABLE COLORS:

Natural

### USABLE TEMPERATURE RANGE:

Minimum: -40°F -40°C

Maximum: 170°F 77°C



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The information provided herein is based upon data believed to be reliable. All testing is performed in accordance with ASTM standards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to the best of our knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, expressed or implied, or merchantability, fitness or otherwise, is made as to product application for a particular use.