



OptiLiner® Banded Liner System Type 1070 Vapor Retarder Fabric

Product Data Sheet

Description

Type 1070 Vapor Retarder Fabric is a premium, low permeance vapor retarder used as the liner in the OptiLiner® Banded Liner System.

Standards & Code Compliance

Type 1070 Vapor Retarder Fabric is considered a Class I vapor retarder based on the ICC International Building Code (IBC).

Fabric Specifications

Property	Value
Color	White/grey, other colors available
Weight	4.4 oz/yd. ² (149 g/m ²)
Thickness	Nominal 9 mils (0.22 mm) ASTM D1777

Performance

Property	Test Method	Value	
Classification	ASTM C1136	Type I – VI*	
Tensile Strength (Strip)	ASTM D5034	Warp 100 lb. 445 N	Weft 91 lb. 404 N
Grab Tensile	ASTM D5034-95	Warp 136 lb. 605 N	Weft 129 lb. 574 N
Tear Strength (Tongue)	ASTM D2261	Warp 50 lb. 222 N	Weft 50 lb. 222 N
Burst Strength (Mullen)	ASTM D3786	245 psi 17,940 Pa	
Elevated Temperature and Humidity Resistance	ASTM C1258	0.02 perms no delamination	
Dimensional Stability	ASTM D1204	Warp -1.0%	Weft -2.0%
Thermal Stability	ASTM C1263	20°F No cracks or delamination	150°F No cracks or delamination
Fungi Resistance	ASTM C1336	No growth. (ATCC #'s 9642, 6205, 11797, 11730 and 9643)	
Moisture Vapor Transmission Rate	ASTM E96 Method A	0.02 perms	
Surface Burning Characteristics (white side exposed)	UL 723 (ASTM E84)		
Flame Spread		0	
Smoke Developed		30	
UV Weathering		UV stabilizers added for extra protection	
Air Permeance for Building Materials	ASTM E2178	<0.004 CFM/ft. ²	

*Exception for dimensional stability (value is <2.0%).

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