

Progetto di ricerca di interesse nazionale 2005, Cofinanziato dal MIUR

Titolo generale della ricerca:



PERCORSI E GESTIONE DELLE INFORMAZIONI TECNICHE PER LA PROMOZIONE E IL CONTROLLO DELL'INNOVAZIONE NEI MATERIALI E NEL PROGETTO DI ARCHITETTURA

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SHEERFILL® ARCHITECTURAL MEMBRANE

SHEERFILL® Architectural Membrane

SHEERFILL® is a family of membranes used in permanent structures. The composite is made of fiberglass and polytetrafluoroethylene (PTFE). SHEERFILL is available in a range of strengths and light transmission levels. This provides the user with a choice of membranes to cover virtually any size structure, from a full-sized stadium to a relatively small skylight. All SHEERFILL membranes conform to rigid fire and building codes for permanent buildings.

Typical Properties¹

Property	SHEERFILL II			SHEERFILL V			SHEERFILL IVA		
Coated Fabric Weight	oz./yd. ²	g/m ²		oz./yd. ²	g/m ²		oz./yd. ²	g/m ²	
	38.5	1305		29.0	983		24.0	814	
Thickness	mils	mm		mils	mm		mils	mm	
	30.0	0.80		22.0	0.55		18.0	0.45	
Strip Tensile	lbs./in	N ⁵ /cm	kg ³ /cm	lbs./in	N ⁵ /cm	kg ³ /cm	lbs./in	N ⁵ /cm	kg ³ /cm
Dry, Warp	825	7220	442	550	4810	295	550	4810	295
Dry, Fill	590	5160	316	625	5470	335	400	3500	215
Wet, Warp	625	5470	335	420	3675	225	500	4375	268
Wet, Fill	465	4070	249	475	4160	255	350	3060	187
After Flex Folding, Warp	680	5950	365	375	3280	201	500	4375	268
After Flex Folding, Fill	415	3630	222	400	3500	215	350	3060	187
Trapezoidal Tear	lbs.	N	kg	lbs.	N	kg	lbs.	N	kg
Warp	75	335	34	40	178	18	40	178	18
Fill	70	310	32	65	290	30	40	178	18
Translucency (%)	13			20			22		
Solar Reflectance (%)	72			71			70		

Test Method ASTM D4851.

Burning Characteristics

Flame Spread ¹	5	0	5
Smoke Generation ¹	10	0	5
Flame Out, Seconds ²	0 seconds	0 seconds	0 seconds
Char Length, Inches	0.38 inches	0.60 inches	0.60 inches
Incombustibility of Substrate ³	Pass	Pass	Pass
Burning Brand ⁴	Class A	Class A	Class A

¹ Test Method ASTM E-84

² Test Method NFPA 701 Small Scale

³ Test Method ASTM E-136

⁴ Test Method ASTM E-108

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