

DURO-FLEECE[®] COLORS 60-MIL MEMBRANE

Advantages:

Duro-Last[®] Duro-Fleece[®] Colors 60-Mil (DFC60) membrane is an excellent choice for projects requiring a long lasting roofing membrane. The combination of fleece and the proven performance of Duro-Last roofing membrane results in an ideal product for use in adhered and mechanically fastened applications over a wide variety of roof substrates. A complete line of custom-prefabricated accessories is available for the DFC60 membrane.

Description:

In addition to the fleece, DFC60 membrane incorporates a weft-inserted, knitted scrim within PVC films to provide exceptional strength and waterproofing.

Duro-Fleece membranes must not be used with Duro-Last EV membranes.

PVC Film - Proprietary thermoplastic PVC formulation of resins, plasticizers, stabilizers, biocides, flame retardants, and U.V. absorbents.

• PVC film above weft-inserted scrim - 31 mil

Weft-Inserted Scrim - An 18 x 9 polyester fabric construction with weft insertion, composed of 840 x 1000 denier threads, provides superior tear and puncture resistance. The polyester thread is treated to prevent wicking.

Fleece - The 3.8-ounce per square yard needlepunched polypropylene fleece provides excellent properties for adhering to, or mechanically fastening over, a variety of substrates. Each roll of membrane has one selvage edge where the fleece is held back 3 inches to provide for hot-air welding to the underlying membrane.

Total Membrane Thickness – 60 mil, nominal.

Overall Thickness (with Fleece) – 78 mil.

Weight – 0.39 lb. per square foot.

Colors – Same top and bottom surface color.

* DFC60 is available in the following colors by special order. Contact sales department for more information.





R-Value – 0.1 ft².°F·hr/Btu.

Packaging – DFC60 is supplied in the roll sizes shown below. A full pallet contains ten rolls.

Roll Dimensions:

Dimensions Estimated Coverage		Roll Weight
10 ft. x 100 ft.	975 sq. ft.	390 lb.
5 ft. x 100 ft.	475 sq. ft.	195 lb.

¹ Assuming 3-inch overlap

Energy Efficiency:

	CRRC ID	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
		Initial	3-yr	Initial	3-yr	Initial	3-yr
Blue	0610- 0015	0.16	P^1	0.89	P^1	13	P ¹
Copper	0610- 0016	0.19	P ¹	0.89	P ¹	17	P ¹
Charcoal	0610- 0013	0.09	P^1	0.86	P^1	3	P^1
Green	0610- 0012	0.08	0.08	0.88	0.88	3	3
Light Gray	0610- 0018	0.46	P^1	0.89	P^1	53	P ¹
Patina	0610- 0019	0.34	P^1	0.89	P^1	37	P^1
Light Tan	0610- 0014	0.72	P^1	0.85	P^1	88	P ¹

P¹ Results pending.

NSF/ANSI 347 GOLD CERTIFIED

Warranty:

The following warranties are available for projects utilizing DFC60 membrane. Contact Duro-Last for warranty details. **Consequential damage coverage is not available for Duro-Fleece installations.**

Available Warranties					
Supreme	Not applicable for this product				
	15-Year NDL	20-Year NDL High Wind		25-Year NDL	
Ultra	High Wind			High Wind	
	Warranty	Warranty		Warranty	
Basic	15-Year NDL	20-Year NDL		25-Year NDL	
Dasic	Warranty	Warranty		Warranty	
Residential	15-Year Residential		20-Year Residential		
Residential	Material Limited Warranty		Material Limited Warranty		

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1 of 2

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Codes and Standards:

Underwriters Laboratories (US & Canada), UL Evaluation Report (ER10128), FM Approvals, Canadian Construction Materials Centre (CCMC 14011-L), State of Florida, Miami-Dade County, Texas Department of Insurance.

Storage:

Store rolls lengthwise on pallets. Use tarps to keep rolls dry.

Membrane Attachment:

Adhered – DFC60 membrane may be adhered to a variety of roof decks, walls, cover boards and insulations. It may be adhered directly to an existing built-up roof (BUR) by using Duro-Fleece Membrane Adhesive or splatter-applied Duro-Grip[®] CR-20. Adhesion pull tests are required prior to adhering to BUR. The tests must be performed on a 1 x 1-foot area and receive minimum values of 150 pounds per square foot. Refer to the Adhered Duro-Fleece Roofing System Specification for substrate preparation, acceptable adhesives and system requirements.

Mechanically Fastened – DFC60 membrane may be mechanically fastened to a variety of roof deck and wall materials. An appropriate slip sheet or cover board may be required. Refer to the Roll Good Mechanically Fastened Roofing System Specification for system requirements.

Physical Properties:

DFC60 membrane has been subjected to the tests required by ASTM D4434 "*Standard Specification for Poly* (*Vinyl Chloride*) *Sheet Roofing*" and has been classified as a Type III, internally reinforced sheet with a fabric backing. The results of each test are listed below. ASTM's *Overall Thickness* requirements for the membrane are plus or minus 10% (nominal) of the listed *Typical Value*.

Physical Property	Test Method	ASTM D4434 Requirement	Result	Typical Value
Overall Thickness	ASTM D751	≥ 0.054 and ≤ 0.066 in. (≥ 54 and ≤ 66 mil)	PASS	0.060 in. (60 mil), nominal (With fleece: 78 mil)
Thickness Over Scrim	ASTM D7635	≥ 0.016 in.	PASS	0.031 in. (31 mil)
Breaking Strength ¹	ASTM D751 Grab Method	≥ 200 lbf./in. PA		554 x 408 lbf./in.
Elongation ¹	ASTM D751 Grab Method	≥ 15%	PASS	34% x 85%
Seam Strength	ASTM D751 Grab Method	≥ 415 lbf. (75% of Breaking Strength)	PASS	437 lbf.
Tear Strength ¹	ASTM D751 Procedure B	≥ 45 lbf.	PASS	50 x 200 lbf.
Low Temp. Bend	ASTM D2136	Must pass at -40° F	PASS	PASS
Heat Aging	ASTM D3045	Conditioned for 56 days in oven maintained at 176° F	PASS	PASS
Accelerated Weathering	ASTM G155	10,000 hours total test time. Irradiance level of 0.35 W/m ² -340nm. Cycle: 102 minutes light, 18 minutes light + H ₂ 0 spray, 63±2.5° C black panel, 30±5% RH	PASS	PASS
Dimensional Stability ¹	ASTM D1204	Conditioned for 6 hours in oven maintained at 176° F. Allowable change: ≤ 0.5%	PASS	0.10% x 0.00%
Water Absorption	ASTM D570	Immersed in water at 158° F for 168 hours. Allowable weight change: ≤ 3%	PASS	2.3%
Static Puncture	ASTM D5602	≥ 33 lbf.	PASS	≥ 33 lbf.
Dynamic Puncture	ASTM D5635	≥ 14.7 ft-lbf.	PASS	≥ 14.7 ft-lbf.

¹ Typical values are shown for both machine and cross machine directions. The machine direction results are listed first.

Additional Tests

Fungi Resistance	ASTM G21	No Sustained Growth or Discoloration		
Moisture Vapor Transmission	ASTM E96, Proc. B, Method A	< 0.35 U.S. perms		



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2 of 2

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