

**CARLISLE SURE-SEAL®/BRITE-PLY™ FLEECEBACK™
EPDM MEMBRANES****GENERAL:**

Sure-Seal and Brite-Ply FleeceBack membranes are factory fabricated with a patented hot melt adhesive technology providing consistent bond strength and selvage edges for splicing. The total finished sheet thickness is 100 or 115 mills (2.54 or 2.92 mm) resulting in a very thick, sturdy and durable EPDM sheet. The FleeceBack 100 membrane provides 40% greater puncture resistance and 180% greater tear resistance than standard 60 mil EPDM. Superior wind uplift performance compared to contact adhesives is another major benefit when using Carlisle's FAST Adhesives with FleeceBack membrane.

TYPICAL PROPERTIES AND CHARACTERISTICS:

See table on reverse side.

CAUTIONS AND WARNINGS:

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.
- U.V. resistant sunglasses are required for Brite-Ply Systems.
- Care must be exercised when working close to a roof edge when surrounding area is snow covered, roof edge may not be clearly visible on Brite-Ply Systems.
- White surfaces reflect heat and may promote slippery conditions due to frost and ice built-up.
- FleeceBack membrane must be kept dry prior to installation. If fleece gets wet use a wet vac system to remove moisture from the fleece.

INSTALLATION:

Sure-Seal or Brite-Ply Design FB, Fully-Adhered Roofing System: Insulation is mechanically fastened or adhered to the roof deck. The substrate is coated with Carlisle FAST™ 100 Adhesive. The membrane is then rolled into the adhesive and rolled with a weighted roller. Splices are sealed with Sure-Seal SecurTape or Carlisle's patented SecurSeam® technology.

Consult Carlisle specifications for complete installation information.

Sure-Seal & Brite-Ply FleeceBack				
Physical Property	Test Method	SPEC. (Pass)	Sure-Seal Typical	Brite-Ply Typical
Tolerance on Nominal Thickness, %	ASTM D 751	±10	±10	±10
Thickness over Fleece, min, in. (mm) 100 mil (2.54 mm) 115 mil (2.92 mm)	ASTM D 4637 Annex	.030 (.762) .030 (.762)	.045 (1.143) .060 (1.524)	.045 (1.143) .060 (1.524)
Weight, 1bm/ft ² (kg/m ²) 100 mil (2.54 mm) 115 mil (2.92 mm)		...	0.29 (1.4) 0.38 (1.9)	0.33 (1.6) 0.42 (2.1)
Breaking Strength, min, lbf (N)	ASTM D751 Grab Method	90 (400)	200 (890)	200 (890)
Elongation, Ultimate, min, %	ASTM D 412	300 **	480 **	500 **
Tearing Strength, min, lbf (N)	ASTM D 751 B Tongue Tear	10 (45)	45 (200)	45 (200)
Brittleness point, max, °F (°C)	ASTM D 2137	-49 (-45)	-67 (-55)	-67 (-55)
Resistance to Heat Aging * Properties after 4 weeks @ 240°F (116°C) for Sure-Seal Properties after 1 week @ 240°F (116°C) for Brite-Ply Breaking Strength, min, lbf (N) Elongation, Ultimate, min, % Linear Dimensional Change, max, %	ASTM D 573 ASTM D 751 ASTM D 412 ASTM D 1204	 80 (355) 200 ** ±1.0	 200 (890) 310 ** -0.7	 200 (890) 250 ** -0.7
Ozone Resistance * Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen wrapped around 3 inch (7.5 cm) mandrel	ASTM D 1149	No Cracks	No Cracks	No Cracks
Resistance to Water Absorption * After 7 days immersion @ 158°F(70°C) Change in mass, max, %	ASTM D 471	4.0 **	2.0 **	3.6 **
Resistance to Outdoor (Ultraviolet) Weathering * Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80° C black panel temp.	ASTM G 155 Conditions	No Cracks No Cracking	No Cracks No Cracking	No Cracks No Cracking
* **	Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.			
Specimens to be prepared from coating rubber compound, vulcanized in a similar method to the reinforced product.				

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