

APP Base/Ply Sheet

GAF TRI-PLY[®] APP Smooth Membrane



ITEM CODE: 3687

Description:

Tri-Ply[®] APP Smooth Membrane is a smooth-surfaced surface modified bitumen membrane manufactured to stringent GAF specifications. Its core is a strong, resilient, non-woven polyester mat that is coated with APP polymer-modified asphalt.

Uses:

Tri-Ply[®] APP Smooth Membrane is designed for new roofing and re-roofing applications, as well as flashings. It is also an excellent product for repair of built-up roofing membranes or other modified bitumen systems.

Advantages:

- Lighter weight — Installed roof designs can weigh less than 2 pounds per square foot.
- Resilience — Polyester mat core helps resist splits and tears due to its excellent elongation characteristics.
- Durability — Specially formulated modified asphalt delivers lasting performance.
- Product warranties and system guarantees are available. Contact your local sales representative for requirements, availability, and limitations. See warranties and guarantees on gaf.com for complete coverage and restrictions.

Storage and Handling:

To prevent damage, support rolls on end in an upright position and store in a clean, dry location, covering as necessary to protect from environmental damage. Monitor environmental conditions during storage, handling, and application.

Testing and Approvals:

- Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.
- FM Approved — refer to roofnav.com for approved assemblies.
- Miami-Dade County Product Control Approved.
- State of Florida Approved.
- UL Evaluation Report UL ER1306-02.
- Texas Department of Insurance Report RV-49
- Meets or exceeds ASTM D6222 Type I, Grade S.
- For additional information, contact GAF Design Services at 1-877-423-7663 or designservices@gaf.com.

Product Specifications:

ASTM D6222 Type I, Grade S	
Roll Size*	106.7 ft. ² (10.0 m ²)
Roll Length	32' 4" (10.0 m)
Roll Width	39.625" (1.0 m)
Roll Weight	85 lb. (38.6 kg)
Roll Thickness	160 mils
Rolls per Pallet	25
Full Pallet Weight	2,175 lb. (986.6 kg)
Reinforcement	Polyester
Top Side Surfacing	Talc or Sand
Bottom Side Surfacing	Burn-Off Film

* Roll Size as reported represents actual membrane dimensions and does not calculate installation using side and end lap recommendations.



Physical Properties:

Property	Standard Minimum Value	GAF Value
Thickness, min. mm (mils), Grade S	3.5 (140)	4.0 (160)
Peak load at 23 +/- 2° C (73.4 +/- 3.6° F) MD and CMD, before and after heat conditioning, min. kN/m (lbf/in.)	MD - 8.8 (50.0) CMD - 8.8 (50.0)	MD - 14.9 (85.3) CMD - 12.3 (70)
Elongation at 23 +/- 2° C (73.4 +/- 3.6° F) MD and CMD, before and after heat conditioning, at peak load, % min.	MD - 23 CMD - 23	MD - 45 CMD - 50
Peak load at -18 +/- 2° C (0 +/- 3.6° F) MD and CMD, min. kN/m (lbf/in.)	MD - 10.5 (60) CMD - 10.5 (60)	MD - 18.4 (105) CMD - 14.9 (85)
Elongation at -18 +/- 2° C (0 +/- 3.6° F) MD and CMD, min. at peak load (%)	MD - 10 CMD - 10	MD - 30 CMD - 50
Ultimate elongation at 23 +/- 2° C (73.4 +/- 3.6° F), min. MD and XMD (%)	MD - 30 CMD - 30	MD - 50 CMD - 35
Tear strength at 23 +/- 2° C (73.4 +/- 3.6° F) min. N (lbf)	311 (70)	511 (115)
Low-temperature flexibility, before and after heat conditioning, max. ° C (° F)	+0 (32)	-10 (14)
Dimensional stability, max. change (%)	1.0	0.4
Compound stability, min. ° C (° F)	110 (230)	130 (266)
Water absorption, max. (%)	3.2	2.5
Moisture content, max. (%)	1.0	< 1.0
Low-temperature unrolling, max. ° C (° F)	5 (41)	-10 (14)
Net mass per unit area, min., g/m ² (lb./100 ft. ²)	3,418 (70)	3,515 (72)
Bottom side coating thickness, min. mm (mils)	0.76 (30)	0.79 (31)

NOTE: Values stated are average values and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.



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