APP Cap Sheet

Tri-Ply®
GAF APPGranule
Membrane



ITEM CODE: 3688

Description:

Tri-Ply® APP Granule membrane is a granule-surfaced 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.

Use:

Tri-Ply® APP Granule membrane is designed for new roofing and reroofing applications, as well as flashings. It is also suitable for repair of built-up roofing membranes or other modified bitumen systems.

Advantages:

- Lighter weight — installed roof designs weigh less than 2 pounds per square foot (9.8 kg per square meter).
- Resilience — Tri-Ply® APP Granule membrane's polyester mat core helps resist splits and tears due to its pliability and elongation characteristics.
- Durability — specially formulated modified asphalt gives Tri-Ply® APP Granule membrane lasting performance.

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.
- Meets or exceeds ASTM D6222 Type I, Grade G.
- State of Florida Approved.
- UL Evaluation Report UL ER1306-02.
- Texas Department of Insurance Report RC-49.
- For additional information, contact GAF Design Services at 1-877-423-7663 or designservices@gaf.com.

FM APPROVED
CLASSIFIED UL
MIAMI-DADE COUNTY APPROVED
State of Florida Approved

Product Specifications:

ASTM D6222 Type I, Grade G	
Roll Size*	106.9 ft.² (10.0 m²)
Roll Length	32' 6" (10.0 m)
Roll Width	39.5" (1.0 m)
Roll Weight	108 lb. (48.9 kg)
Roll Thickness	165 mils (4.2 mm)
Rolls per Pallet	20
Full Pallet Weight	2,210 lb. (1,002.5 kg)
Reinforcement	Polyester
Top Side Surfacing	Granules
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 G	4.0 (160)	4.2 (165)
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) CMD - 8.8 (50)	MD - 14.0 (80) CMD - 12.2 (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 - 42 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 - 16.1 (92)
Elongation at –18 +/- 2° C (0 +/- 3.6° F) MD and CMD, min. at peak load (%)	MD - 10 CMD - 10	MD - 30 CMD - 32
Ultimate elongation at 23 +/- 2° C (73.4 +/- 3.6° F), min. MD and CMD (%)	MD - 30 CMD - 30	MD - 45 CMD - 55
Tear strength at 23 +/- 2° C (73.4 +/- 3.6° F) min.	311 (70)	467 (105)
Low-temperature flexibility, before and after heat conditioning, ° C (° F), max.	+0 (32)	-10 (14)
Dimensional stability, max. change (%)	1.0	0.4
Compound stability, min. ° C (° F)	110 (230)	130 (266)
Granule embedment, max. loss (grams) Grade G only	2.0	1.2
Water absorption, max. (%)	3.2	3.0
Moisture content, max. (%)	1.0	>1.0
Low-temperature unrolling, max. ° C (° F)	5 (41)	-10 (14)
Net mass per unit area, min. g/m² (lb./100 ft.²)	4,150 (85)	4,162 (85)
Bottom side coating thickness, min. mm (mils)	0.76 (30)	0.78 (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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