

SBS Modified Bitumen Membrane



ITEM CODE: 3706

Description:

RUBEROID® 20 Smooth membrane is a tough, resilient modified bitumen membrane manufactured to stringent GAF specifications. Its core is a strong, non-woven glass mat that is coated with flexible, SBS polymer-modified asphalt.

Uses:

RUBEROID® 20 Smooth membrane is designed for new roofing and re-cover applications as well as in the construction of flashings. RUBEROID® 20 Smooth membrane is an ideal base or interply roofing membrane in GAF modified bitumen systems.

Advantages:

- Lighter weight — Installed roof designs weigh less than 3 pounds per square foot.
- Durability — The membrane combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt.
- 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.

Product Application:



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, including as component of Class A fire resistance rated roofing assemblies. 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.
- Meets or exceeds ASTM D6163 Type I, Grade S.
- For additional information, contact GAF Design Services at 1-877-423-7663 or designservices@gaf.com.



Product Specifications:

ASTM D6163 Type I, Grade S

Roll Size*	161.3 ft. ² (15.0 m ²)
Roll Length	49' 2" (15.0 m)
Roll Width	39.375" (1.0 m)
Roll Weight	89 lb. (40.4 kg)
Roll Thickness	90 mils (2.2 mm)
Rolls per Pallet	30
Full Pallet Weight	2,720 lb. (1,233.8 kg)
Reinforcement	Fiberglass
Top Side Surfacing	Sand
Bottom Side Surfacing	Sand

* 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. mils (mm), Grade S	80 (2.0)	90 (2.2)
Net mass/unit area, min. g/m ² (lb./100 ft. ²)	2,197 (45)	2,441 (50)
Bottom coating thickness, heat-welding application products, min. mm (mils)	1.0 (40)	1.0 (42)
Peak load at -18 +/-2° C (0 +/-3.6° F), MD and CMD, min. before and after heat conditioning, kN/m (lbf/in.)	MD - 12.3 (70) CMD - 12.3 (70)	MD - 19.3 (110) CMD - 13.1 (75)
Elongation at -18 +/-2° C (0 +/- 3.6° F), MD and CMD, min. at peak load, before and after heat conditioning, (%)	MD - 1.0 CMD - 1.0	MD - 3.0 CMD - 2.8
Peak load at 23 +/-2° C (73.4 +/-3.6° F), MD and CMD, min. before and after heat conditioning, kN/m (lbf/in.)	MD - 5.3 (30) CMD - 5.3 (30)	MD - 14.0 (80) CMD - 9.1 (52)
Elongation at 23 +/-2° C (73.4 +/-3.6° F), MD and CMD, min. at peak load, before and after heat conditioning, (%)	MD - 2.0 CMD - 2.0	MD - 3.0 CMD - 3.0
Ultimate elongation 23 +/-2° C (73.4 +/-3.6° F), MD and CMD, min. before and after heat conditioning, (%) (as manufactured)	MD - 3.0 CMD - 3.0	MD - 9.0 CMD - 13.0
Ultimate elongation 23 +/-2° C (73.4 +/-3.6° F), MD and CMD, min. before and after heat conditioning, (%) (after heat conditioning)	MD - 3.0 CMD - 3.0	MD - 4.0 CMD - 5.0
Tear strength at 23 +/-2° C (73.4 +/-3.6° F), min. N (lbf)	156 (35)	289 (65)
Low-temperature flexibility, max. before and after heat conditioning, ° C (° F)	-18 (0)	-26 (-15)
Dimensional stability, max. (%)	0.50	0.05
Compound stability at 102° C (215° F)	No Failures	No Failures

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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