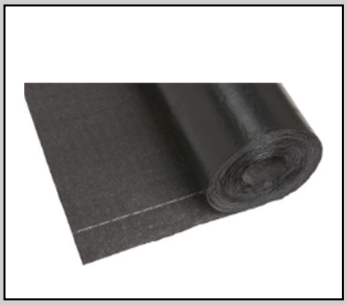
Product Data Sheet



APP 160

Item Description	Item Number
1 roll (1 square)	W80APP0162

Description

APP 160 is a smooth-surface APP modified bitumen membrane designed to be heat-welded. It consists of select asphalt, modified with atactic polypropylene, and strengthened with a fiber glass reinforced non-woven polyester mat [190 g/m² (3.9 lb/100 ft²)] made with 100% recycled PET fibers. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6222 Type I, Grade S APP 160 is strong and stable, and resistant to natural forces and other factors on the rooftop. It is ideal for both new construction and re-roofing applications such as a base ply, inter-ply, cap sheet (with protective surfacing), or as a flashing sheet in single or multi-ply APP applications.
NOTE: Meets or exceeds performance requirements of ASTM D 6222, Type I, Grade S.

Method of Application

Refer to current GenFlex Technical Specifications for additional instructions.
IMPORTANT: Ensure the receiving surfaces are free of debris and no moisture is present.

1. APP 160 must be installed by fully heat welding the membrane to an approved substrate.
2. Please reference the GenFlex Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the application of APP 160.

Acceptable Immediate Substrates for Heat-Welded Application

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved GenFlex Base Sheet.
- Existing Smooth Surface BUR or APP Modified Bitumen (must be clean, smooth, and primed with ASTM D-41 primer).
- DensDeck® Prime, SECUROCK® Gypsum Fiber

NOTE: Please reference the GenFlex Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the type of deck and insulation in use.

Storage

- All material should be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 50 °F (10 °C) and a maximum of 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack APP 160 more than two (2) pallets high.
- If the material must be stored temporarily on the roof before application, it must be elevated from the roof surface on a pallet, stored on end, and covered from the weather with a light-colored opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.

Precautions

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- If APP 160 Base Ply or Inter-Ply are left exposed over 48 hours, it must be primed with ASTM D-41 primer.
- APP 160 membrane if used as a cap sheet, is required to have protective surfacing such as an approved reflective coating.
- Take care when transporting and handling Modified Bitumen rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all GenFlex Modified Bitumen membranes.

LEED® Information

Post-Consumer Recycled Content: 8%
Post Industrial Recycled Content: 0%
Manufacturing Location: Beech Grove, IN
NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Product Packaging

Property	Value
Roll width	39 in (1 m)
Roll length	32 ft 10 in (10 m)
Net coverage	98 ft² (9.1 m²)
Roll weight	110.5 lb (50.12 kg)
Pallet size	48 in x 39 in (1.2 m x 1 m)
Rolls per pallet	20
Weight per pallet	2210 lb (1002.44 kg)

Typical Properties

Property	Test Method	ASTM Standard Required Value	Typical Performance
Product thickness	D5147	140 mil (3.5 mm)	154 mil (3.9 mm)
Net mass	D146	54 lb/100 ft² (2636 g/m²)	85 lb/100 ft² (4150 g/m²)
Bottom side coating	D5147	30 mil (0.76 mm)	47 mil (1.2 mm)
Peak load at 73 °F (23 °C)	D5147	50 lbf/in, MD (8.8 kN/m) 50 lbf/in, XMD (8.8 kN/m)	55 lbf/in, MD (9.6 kN/m) 55 lbf/in, XMD (9.6 kN/m)
Elongation at peak load at 73 °F (23 °C)	D5147	20%, MD; 20%, XMD	50%, MD; 50%, XMD
Peak load at 0 °F (-18 °C)	D5147	60 lbf/in, MD (10.5 kN/m) 60 lbf/in, XMD (10.5 kN/m)	65 lbf/in, MD (11.4 kN/m) 65 lbf/in, XMD (11.4 kN/m)
Elongation @ peak load 0 °F (-18 °C)	D5147	10%, MD; 10%, XMD	15%, MD; 15%, XMD
Ultimate elongation @ 5% of peak load 73 °F (23 °C)	D5147	30%, MD; 30%, XMD	40%, MD; 40%, XMD
Tear strength at 73 °F (23 °C)	D5147, D4073	70 lbf/in, MD (311 N, MD) 70 lbf/in, XMD (311 N, XMD)	75 lbf/in, MD (334 N, MD) 75 lbf/in, XMD (334 N, XMD)
Low temperature flexibility	D5147	32 °F (0 °C)	32 °F (0 °C)
Dimensional stability	D5147, D1204	1% change, MD, 1% change, XMD	.2% change, MD, .2% change, XMD
Compound stability	D5147	230 °F (110 °C)	270 °F (132 °C)
Water absorption	D5147, D95	3.2%	0%
Moisture content	D5147, D95	1%	0%
Low temperature unrolling	D5636	41 °F (5 °C)	0 °F (-18 °C)

Please contact Amrize Technical Services at 800-428-4511 for further information.