

Product Data Sheet

GenFlex II FRM PT EPDM Membrane

Item Description	Item Number
Reinforced Pre-Taped EPDM Panel	Various

Description

GenFlex II FRM PT EPDM Membrane is an internally reinforced, cured single-ply roofing membrane that features a 9 x 9. 1000 denier polyester weft inserted reinforcing scrim for increased puncture resistance. EPDM membrane panel with 3" (76.2 mm) or 6" (152.4 mm) wide QuickSeam™ tape factory laminated continuously along one 100' (30.5 m) length of the panel. The pre-applied tape assists and accelerates field installation of FRM membrane in fully adhered, ballasted, and mechanically anchored systems.

Method of Application

- Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
- All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than 1/4" (6.4 mm) wide shall be properly filled with an acceptable fill material.

Pre-Taped Seam Assembly

1. GenFlex II FRM PT membrane must be installed in accordance with current GenFlex specifications, details and workmanship requirements.
2. After the membrane has been mechanically attached or adhered to specification, fold back the top portion of the field seam exposing the bottom surface of the field seam. Prime the field seam area to receive tape with an acceptable GenFlex primer utilizing a GenFlex scrub pad and handle, using a minimum of four back and forth motions with heavy pressure. Extra scrubbing is required at factory seams (including parallel scrubbing at factory seams) and areas of heavy dusting agent build up.
3. Allow primer to flash off (usually less than 10 minutes). Use the touch-push test to determine primer readiness.
4. When primer is ready to receive tape, position the top portion of the field seam (with pre-applied tape and release liner in place) over the primed area. Remove the release liner from the pre-applied tape, pulling the liner at a 45° angle at about the same level as the seam so all seam elements mate evenly. Roll the freshly mated field seam using a 1 1/2" (38.1 mm) wide silicone hand roller to promote and ensure proper adhesion.
5. Install T-Joint patches at all seam intersections and complete seam edge treatment where required per current specifications.

Storage

- Store away from sources of punctures and physical damage.
- Store away from ignition sources as membrane will burn when exposed to open flame.
- GenFlex II FRM PT membrane should be installed within 18 months after production. If the tape release liner can be removed, even after one year, the membrane can still be installed. Store in original unopened packaging indoors at 60 °F to 80 °F (16 °C to 27 °C). Protect the membrane and tape from physical damage.

Precautions

- Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Refer to Safety Data Sheets (SDS) for safety information.

LEED® Information

Post-Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 0%
 Manufacturing Location: Prescott, AR

NOTE: LEED® is a registered trademark of the U.S. Green Building Council



Packaging			
Membrane Tape Thickness	Width	Length	Weight
0.060" mil, 3" (76.2 mm)	10' (3.05 m)	100' (30.5 m)	0.39 lb/ft ² (1.9 kg/m ²)
0.060" mil, 6" (152.4 mm)	10' (3.05 m)	100' (30.5 m)	0.39 lb/ft ² (1.9 kg/m ²)
0.075" mil, 6" (152.4 mm)	10' (3.05 m)	100' (30.5 m)	0.58 lb/ft ² (2.8 kg/m ²)

Typical Data	
QuickSeam Tape Property	Value
Base	Rubber Polymers
Color	Black
Solvents	None
Percent Solids	100%
Cure State	Cured
Thickness	0.035" ± 0.008" (0.89 mm ± 0.20 mm)
Width	3" - 0"/+0.125" (76 mm -0/+1.6 mm) 6" - 0"/+0.125" (152 mm -0/+3.2 mm)

Typical Properties (Meets or exceeds ASTM D 4637, Type II scrim-reinforced EPDM Single-Ply roofing membranes)			
Physical Test	ASTM Min Value	Typical Value 60 mil	Typical Value 75 mil
Thickness (D412)	1.52 mm+0.229 mm/-0.152 mm (0.060"+0.009"/-0.006")	1.473 mm (0.058")	1.956 mm (0.077")
	1.90 mm+0.279 mm/-0.203 mm (0.075"+0.011"/-0.008")		
EPDM Coating over Scrim (D7635)	0.38 mm (0.015")	0.762 mm (0.030")	0.838 mm (0.033")
Breaking Strength (D751, Grab Method)	400 N (90 lbf)	880.7 N (198 lbf)	1063.1 N (239 lbf)
Dynamic Puncture Resistance @ 10 J (D5635)	pass	pass	pass
Static Puncture Resistance@ 25 kg (D5602)	pass	pass	pass
Elongation, Ultimate % (D412, Die C)	250% min (EPDM only, no scrim)	pass	
Elongation, @ fabric break (ultimate) (D751, Grab Method)	15% MD	28.0% MD	27.1% MD
	15% CD	30.2% CD	36.3% CD
Tear Strength (D751, B-Toque Tear)	45 N (10 lbf) min	516 N (116 lbf)	498.2 N (112 lbf)
Brittleness Point (D2137)	-45 °C (-49 °F) max	pass	pass
Ozone Resistance, no cracks (D1149)	pass	pass	pass
Breaking Strength after Heat Aging*	356 N (80 lbf)	pass	pass
Elongation, Ultimate after Heat Aging*	200% min (EPDM only; no scrim)	pass	pass
Linear Dimensional Change after Heat Aging*	± 1%	pass	pass
Water Absorption by Mass	+8% / -2% (EPDM only; no scrim)	pass	pass
Factory Seam Strength (D816, Method B)	8.8 kN/m (50 lbf/in) or sheet failure	N/A (no factory seams)	N/A (no factory seams)
Visual Inspection after Xenon-ARC Exposure**	pass	pass	pass

* Heat age EPDM membrane for: 166 ± 1.66 hours at 240 ± 4 °F (116 ± 2 °C), followed by specified physical testing.
** Weather Resistance shall be Practices G151 and G155 Xenon-Arc as follows:
Filter Type: Daylight
Irradiance: 0.35 to 0.70 W/(m²·nm) @ 340 nm [42 to 84 W/(m²·nm) @ 300 to 400 nm]
Cycle: 690 minutes ± 15 minutes light, 30 minutes light plus water spray
Un-insulated Black Panel Temp: 176 ± 4 °F (80 ± 2 °C)
Relative Humidity: 50% ± 5%
Spray Water: De-ionized
Specimen Rotation: Every 315 KJ/(m²·nm) @ 340 nm [37.8 MJ/(m²·nm) @ 300 to 400 nm]
Exposure: 10,080 KJ/(m²·nm) @ 340 nm [1209.6 MJ/(m²·nm) @ 300 to 400 nm]

- When system design includes an air barrier, please consult your GenFlex Technical Services Advisor for additional roof system securement enhancements.
- Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.

Please contact Amrize Technical Services at 800-443-4272 for further information.

This sheet is meant to highlight GenFlex products and specifications and is subject to change without notice. Amrize takes responsibility for furnishing quality materials that meet published GenFlex product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Amrize nor its representatives practice architecture. Amrize offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Amrize accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Amrize representative is authorized to vary this disclaimer.