

GOLIATH PVC 80

Thermoplastic PVC single-ply membrane Technical Data Sheet

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Product Description:

GOLIATH PVC 80 is a polyester-reinforced, thermoplastic PVC waterproofing membrane for single-ply roofing systems. GOLIATH PVC is compounded high quality polyvinyl chloride resin, resilient plasticizers, stabilizers, pigments and other proprietary materials and manufactured in a nominal 80 mil thickness.

Features and Benefits:

- Meets or exceeds ASTM D4434, Type III Thermoplastic Membrane
- Excellent flexibility in all climates.
- Engineered PVC formulation providing good resistance to environmental elements such as UV radiation, Ozone, microorganisms.
- GOLIATH PVC 80 is highly reflective and can help reduce heat transfer through the roof into the building's interior. It meets California Title 24 requirements for Solar Reflectance and Emissivity (White).
- Thick, weather-resistant, heavy duty top ply exceeding minimum requirements in over the scrim thickness with acrylic-based top finish allowing for exceptional abrasion resistance and great clean-ability.
- GOLIATH PVC 80 can be easily welded with superior seam strength.
- An anti-wicking polyester reinforcement (9x9 1000 Denier) provides strength, tear resistance and enhanced moisture resistance. No edge sealant is required for cut edges.

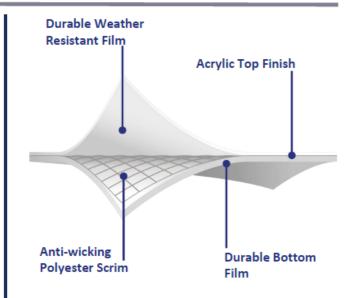
Use:

GOLIATH PVC 80 can be installed in new, recover, and re-roof constructions as the primary field membrane and base flashing at all roof to wall transitions. It can be mechanically attached or fully adhered to a properly prepared substrate with approved fasteners and membrane plates or approved membrane adhesive (Please refer to listed approved roofing materials and constructions).

Warranties:

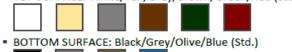
GOLIATH PVC 80 has a 15-Year limited material warranty and is available for additional warranty when installed with an approved applicator.





Available Colors/Embossed:

TOP SURFACE: White/Tan/Grey/Brown/Green/Red (Std.)



· Custom colors available upon request

Approvals:

GOLIATH membranes are listed with various component assemblies at UL and Factory Mutual (F.M. Global) for fire, wind uplift and impact resistance. Further information is available with the following code directories:

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada



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Installation:

GOLIATH PVC can be used for mechanically fastened or fully adhered systems using thermal weld for seaming. Refer to GOLIATH application guides and detail drawings for instructions.

Energy and Environment:

Color	Solar Reflectance	Thermal Emittance	SRI Value Initial	SRI Value 3-Year Aged
White	0.87	0.88	110	91
Tan	0.37	0.87	39	NA
Grey	0.16	0.88	13	NA
Brown	0.08	0.87	2	NA
	Re	cycled Conten	t	
Post-consumer			0%	
Pre-consumer			0% - 40%	

Packaging and Dimensions:

	Size		Coverage	Rolls per	Approx. pallet
	W	L	per roll	pallet	weight
ĺ	72 in.	60 ft.	360 sq. ft.	12	2400 lb.
	36 in.	60 ft.	180 sq. ft.	24	2400 lb.

Custom packaging and roll sizes available upon request.



Typical Physical Properties:

Meets the requirements of ASTM D 4434, Type III

hys	ical Properties	Test Method	Requirements	GOLIATH TOWER PVC 80
÷	Breaking strength	ASTM D751, Method A Grab	≥ 200 lbf. MD/XMD	405 lbf. MD/385 lbf.XMD
	Elongation at break	ASTM D751, Method A Grab	≥ 15% MD/XMD	34 % MD/29 % XMD
	Tearing strength	ASTM D751, Method B	≥ 45 lbf. MD/XMD	62 lbf. MD/78 lbf.XMD
	Seam strength	ASTM D751, Method A Grab	75% of original strength	Pass
Strength	Static puncture resistance	ASTM D5602, 33 lbf. @ 73 °F	Pass	Pass
ž	Dynamic puncture resistance	ASTM D5635, 20J @ 73 °F	Pass	Pass
	Overall thickness	ASTM D751	≥ 0.045 in. ±10 %	0.080 in. ±10 %
⋛	Thickness over scrim	ASTM D7635, Optical	≥ 0.016 in.	0.033 in.
Durability	Water absorption	ASTM D570, Modified	± 3%	0.9%
Š	Low temperature bend	ASTM D2136 @ -40 °F (-40 °C)	Pass	Pass
	Retention of properties after heat aging	ASTM D3045, 56 days @ 176 °F	≥ 90% of original	Pass
9	Breaking strength	ASTM D751, Method A Grab	≥ 90% of original	Pass
Performance	Elongation at break	ASTM D751, Method A Grab	≥ 90% of original	Pass
Į.	Tearing strength	ASTM D751, Method B	≥ 90% of original	Pass
Heat Aged Performan	Linear dimensional change	ASTM D1204, 6 hours	≥ 0.5 % MD/XMD	-0.3 % MD/0.02 % XMD
	Accelerated weathering	ASTM G154, 5000 hours	Pass	Pass
9	Cracking	Optical @ 7x magnification	No cracks	Pass
Weather	Discoloration	Visual	Negligible	Negligible
	Crazing	Optical @ 7x magnification	No crazing	Pass
		ASTM E96, Proc. B, Method A		0.013 g/(h.m²)
		UL-790	NC: Incline3-Class A	
Duce	Fire resistance – UL	CAN/ULC-S107	NC: Incline UnlimClass B	
rmar		,	C-15/32:Incline UnlimClass B	
ţ	Fire resistance – FM Class 4470	ASTM E108	External: Class A	

This table contains typical physical properties and characteristics based on actual test specimen data.



