Parasolo® PVC KEE Advanced Fleece-Back Sheets

Commercial Product Data Sheet



Description:

Parasolo® PVC KEE Advanced Fleece-Back is a reinforced single-ply membrane utilizing an advanced proprietary PVC blend with Dow® ELVALOY™* Ketone Ethylene Ester (KEE) solid-phase flexibilizer and PFAS-free non-wick coated scrim with a polyester fleece backing. Parasolo® PVC KEE Advanced has excellent fire resistance,† chemical resistance,‡ and mold resistance§ properties.

Contact Siplast for information on approved product uses.

Features:

- Meets and exceeds ASTM D4434 Type III & IV Physical Properties
- Highly flexible, making it ideal for use on difficult contours and curves
- Heat-welded, high-strength seams with visible weld bleed out
- Reflective surface can help reduce urban heat island effect
- Advanced resistance against chemicals‡ and mold§

	Mil	Full Sheet	Half sheet
Standards:	ASTM D4434, Type III & IV		
Roll Sizes	50	10 ft. x 100 ft. (3.05 m x 30.5 m)	5 ft. x 100 ft. (1.52 m x 30.5 m)
	60	10 ft. x 100 ft. (3.05 m x 30.5 m)	5 ft. x 100 ft. (1.52 m x 30.5 m)
	80	10 ft. x 80 ft. (3.05 m x 24.38 m)	5 ft. x 80 ft. (1.52 m x 24.38 m)
Roll Weights (nominal)	50	339 lb. (154 kg)	170 lb. (77 kg)
	60	400 lb. (181 kg)	200 lb. (91 kg)
	80	401 lb. (182 kg)	201 lb. (91 kg)

Packaging:

- Rolls Per Pallet: 7 (50 & 60 mil); 10 (80 mil)

* ELVALOY™ is a trademark of Dow®

† In Class A E108 testing, specific Parasolo® PVC roofing assemblies have demonstrated the capability to extinguish even when the flame source remains applied to the assembly.

‡ Siplast warranties and guarantees do not provide coverage against exposure to chemicals, oil and grease. Refer to siplast.com for more information on warranty and guarantee coverage and restrictions.

§ Siplast warranties and guarantees do not provide coverage against mold or other biological growth. Refer to Siplast.com for more information on warranty and guarantee coverage and restrictions.

Application:

Refer to the applicable Siplast Technical Guide and applicable Siplast details for information on the application of Parasolo® PVC KEE Advanced membranes.



Mechanical **Adhered**

Color options:



White **Gray** **Tan**

NOTE: Colors and select thicknesses are Special Made to Order.

Storage and Handling:

All roofing products should be stored on pallets in a clean, dry area out of direct exposure to the elements. Materials should not be double stacked and must remain on the pallet until use in a shaded, well-ventilated area and covered with a light-colored tarp. Materials should be handled so that they remain dry prior to and during construction.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Listings, Approvals & Certifications:

c UL us LISTED

FM APPROVED

CRRC COOL ROOF RATING COUNCIL

- Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.
- FM Approved - Refer to RoofNav.com for specific assemblies.
- Can be used to comply with Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations.
- Florida Product Approved.
- CSA A123.21 Tested.

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Physical Properties (ASTM D4434–21, Type III & IV)					
Property (as manufactured)	**Test Method**	**ASTM Type III Min. Values**	**50 mil***	**60 mil***	**80 mil***
Overall Thickness	ASTM D751	45 mil (1.14 mm)	50 mil (1.27 mm)	60 mil (1.52 mm)	80 mil (2.03 mm)
Nominal Thickness Over Scrim	ASTM D7635	16 mil (0.41 mm)	20 mil (0.51 mm)	29 mil (0.73 mm)	39 mil (0.99 mm)
Breaking Strength	ASTM D751	200 lbf (890 N) (MD & CD)	428 lbf (1,903 N) MD 382 lbf (1,699 N) CD	469 lbf (2,086 N) MD 398 lbf (1,770 N) CD	482 lbf (2,064 N) MD 537 lbf (1,815 N) CD
Seam Strength	ASTM D751	75% (% of tensile or breaking strength)	75% min.	75% min.	75% min.
Elongation at Break	ASTM D751	15% (MD & CD)	30% MD 32% CD	35% MD 35% CD	34% MD 34% CD
Breaking Strength After Heat Aging	ASTM D3045	90%	90% min.	90% min.	90% min.
Elongation at Break After Heat Aging	ASTM D3045	90%	90% min.	90% min.	90% min.
Tear Strength	ASTM D751	45 lbf (200.2 N) (MD & CD)	141 lbf (627 N) MD 167 lbf (742 N) CD	129 lbf (573 N) MD 184 lbf (818 N) CD	112 lbf (498 N) MD 189 lbf (840 N) CD
Low-Temperature Bend	ASTM D2136	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)
Static Puncture Resistance	ASTM D5602	33 lbf (145 N)	33 lbf (145 N)	33 lbf (145 N)	33 lbf (145 N)
Dynamic Puncture Resistance	ASTM D5635	20J (14.7 ft./lbf)	20J (14.7 ft./lbf)	20J (14.7 ft./lbf)	20J (14.7 ft./lbf)
Accelerated Weathering	ASTM G154† Fluorescence QUV	12,240 kJ/m² 5,000 h	>179,000 kJ/m² 32,000 h	>179,000 kJ/m² 32,000 h	>179,000 kJ/m² 32,000 h
	ASTM G155‡ Xenon Arc WOM	6,300 kJ/m² 5,000 h	76,800 kJ/m² 30,500 h	76,800 kJ/m² 30,500 h	76,800 kJ/m² 30,500 h
Linear Dimensional Change	ASTM D1204	≤0.5%	≤0.5%	≤0.5%	≤0.5%
Change in Weight After Water Immersion	ASTM D570	±3.0%	≤3%	≤3%	≤3%

* Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.
† Tested at 1.55 W/m² in comparison to ASTM G154 min of 0.68 W/m².
‡ Tested at 0.7 W/m² in comparison to ASTM G155 min of 0.35 W/m².

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CRRC COOL ROOF RATING COUNCIL	Cool Roof Rating Council (CRRC)			
Product ID	**Type**	**Solar Reflectance**	**Thermal Emittance**	**Solar Reflectance Index (SRI)**
	ASTM Test Method	**ASTM C1549**	**ASTM C903**	**ASTM E903**
White Listing #: 0742-0025	Initial	0.86	0.86	109
	3-Year Aged	0.78	0.87	96
Gray Listing #: 0742-0030	Initial	0.57	0.88	67
	3-Year Aged	0.50*	0.88*	58*
Tan Listing #: 00742-0029	Initial	0.73	0.88	90
	3-Year Aged	0.62*	0.88*	77*

* CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally aged values and will be replaced by the measured three-year naturally aged values upon completion of the weathering process.

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