

TECHNICAL DATA SHEET

PRODUCT DETAILS

Integral Polyester Fleece Backing: In-line application of fleece allows for stronger bond for polyester backing that gives more flexibility in varying substrates for mechanically fastened or adhered systems.

One of the Widest Melt Windows: Promotes better welds over a wider variety of speeds and temperatures, and leads to a softer, more flexible and workable sheet.

Reinforced fabric scrim layer and top-ply thickness: Lends to durable physical properties including, long-term weathering, UV resistance and heat-aging properties
High breaking and tearing strength

Optimized TPO formulation: Delivers high-performance ozone resistance, cool roof reflectivity and overall weather resistance.

Colours: Light Grey and White*

*white is special order only

INSTALLATION/APPLICATION

Refer to Nuralite application guides and detail drawings for instructions.

ENERGY AND THE ENVIRONMENT

Standard		Reflectivity	Emissivity	
CRRC®	White	Initial	0.77	0.87
		3 Yr. Aged	0.70	0.86
	Light Grey	Initial	0.35	0.87
		3 Yr. Aged	0.34	0.90
CA Title 24	White	Pass	0.77	0.87
ENERGY STAR®	White	Initial	0.77	0.87
		3 Yr. Aged	0.70	
LEED® (SRI)	White	Initial		95
		3 Yr. Aged		85
	Light Grey	Initial		39
		3 Yr. Aged		37
Recycled Content	Post-consumer		0%	
	Post-industrial		5%	

PACKAGING AND COVERAGE

Roll Width	3.05 m
Roll Length	30.48 m
Roll Coverage	92.9 m ²
Rolls per Pallet	6
Pallet Weight	1,045 kg

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TESTED PHYSICAL PROPERTIES

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	Nuraply TPO – FB 1	
				MD*	XMD**
Strength	Breaking Strength, min, N	D 751	976	2,220	2,002
	Elongation at Break, min %	D 751	15	29	27
	Tearing Strength, min, N	D 751	200	404	649
	Factory Seam Strength, min, N	D 751	290	761	
Longevity	Thickness, min, in.	D 751	+/- 10% from Nominal	0.060 (Nominal)	
	Thickness Over Scrim, min, mm	D 7635	0.38	0.68	
	Water Absorption, max, %	D 471	3.0	0.08	
	Brittleness Point, max, -40°F	D 2137	No Cracks	Pass	
Heat Aged Performance	Properties after Heat Aging @ 240°F	D 573	Pass/Fail	Pass	
	Breaking Strength, % (after aging)	D 751	90	>90	>90
	Elongation, % (after aging)	D 751	90	>90	>90
	Tearing Strength, % (after aging)	D 751	60	>60	>60
	Weight Change, max, % (after aging)	D 751	±1.0	0.25	
	Linear Dimensional Change, max, % (after 6 hrs @ 158°F)	D 1204	±1.0	<0.2	
Weather	Accelerated Weathering, min	G 151 & G 155	10,080 kJ/m ² • nm @ 340 nm (4,000 hrs @ 0.70 W)	10,080 kJ/m ² (4,000 hrs)	
	Cracking (@ 7x magnification)	G 155	No Cracks	Pass	

1. NURAPLY TPO FB is comprised of a 60 Mil TPO membrane and an integral fleece backing. The given physical properties are based on the NURAPLY TPO 60 Mil membrane.

* MD = Machine Direction

** XMD = Cross-Machine Direction Note: All data represents tested values.

SUPPLEMENTAL TESTING

Physical Properties	ASTM Test Method	Standard for ASTM D 6878 (Min.)	Nuraply TPO – FB Result
Dynamic Puncture	D 5635	N/A	Pass @ 27.5 Joules
Static Puncture	D 5602	N/A	Pass @ 20 kg
Reflectance	C 1549	N/A	78%
Emittance	C 1371	N/A	0.87

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