

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%		

The LEED® Solar Reflectance Index (SRI) is calculated per ASTM E1980.

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

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, mm.	D 751	+/- 10% from Nominal	1.5 (Nominal)	
	Thickness Over Scrim, min, mm	D 7635	0.38	0.68	
	Water Absorption, max, %	D 471	3.0	0.08	
	Brittleness Point, max, -5°C	D 2137	No Cracks	Pass	
Heat Aged Performance	Properties after Heat Aging @ 115°C	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 @ 70°C)	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 1.5mm TPO membrane and an integral fleece backing. The given physical properties are based on the NURAPLY TPO 1.5mm 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

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.