

PRODUCT DETAILS

Thickness Over Scrim: Optimized and tested on a continual basis with a state-of-the-art thickness gauge to verify that the thickness valued by our customers is incorporated into the sheet.

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: Grey and White*
*white is special order only



INSTALLATION/APPLICATION

Refer to Nuraply TPO 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
	Gray	Initial	0.35	0.87
		3 Yr. Aged	0.34	0.90
CA Title 24	White	Pass	0.77	0.87
ENERGYSTAR®	White	Initial	0.77	0.87
		3 Yr. Aged	0.70	
LEED® (SRI)	White	Initial	95	
		3 Yr. Aged	85	
	Gray	Initial	39	
		3 Yr. Aged	37	
Recycled Content	Post-consumer		0%	
	Post-industrial		5%	

PACKAGING AND DIMENSIONS

Roll Widths	1.52 m	1.83 m	2.44 m	3.05 m	3.66 m
Roll Lengths	30.48 m				
Roll Coverage	46.45 m ²	55.74 m ²	74.32 m ²	92.90 m ²	111.5 m ²
Rolls per Pallet	8				
Pallet Weight	627.8 kg	762.0 kg	997.9 kg	1251.9 kg	1469.6 kg
Pallets per Truck*	28-32	22-26	18-20	12-16	12-14

TESTED PHYSICAL PROPERTIES

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	NURAPLY TPO – 1.5mm	
				MD*	XMD**
Strength	Breaking Strength, min, N	D 751	976	1,828	1,726
	Elongation at Break, min %	D 751	15	27	27
	Tearing Strength, min, N	D 751	200	409	792
	Factory Seam Strength, min, N	D 751	290	498	
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	0.11	
	Brittleness Point, max, -5°C	D 2137	No Cracks	Pass	
	Ozone Resistance	D1149	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	0.19	
	Linear Dimensional Change, max, % (after 6 hrs @ 70°C)	D 1204	±1.0	<0.1	
Weather Performance	Accelerated Weathering, min	G 151 & G 155	10,080 kJ/m ² ·nm @ 340 nm (4,000 hrs @ 0.70 W)	>20,160 kJ/m ² (>8,000 hrs)	
	Cracking (@ 7x magnification)	G 155	No Cracks	Pass	

*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 –1.5mm Result
Dynamic Puncture	D 5635	N/A	Pass @ 25 Joules
Static Puncture	D 5602	N/A	Pass @ 20 kg
Impact Resistance of Bituminous Roofing Systems	D 3746	N/A	Pass - minor indentations
Reflectance	C 1549	N/A	78%
	E 903	N/A	80%
Emittance	C 1371	N/A	0.87
	E 408	N/A	0.96
SRI	E 1980	N/A	95
Resistance of Synthetic Polymer Material to Fungi	G 21	N/A	0 rating
Puncture Resistance (FTMS 101C, Method 2031)	N/A	N/A	168 kg
Moisture Vapor Transmission	E 96	N/A	0 g/m ² per 24 hours
Hydrostatic Resistance, Mullen	D 751	N/A	474 PSI (3268 kPa)
Standard Test Method for Air Permeance of Building Materials	E 2178	N/A	Pass @ <0.0005 L/(s·m ²) (Pass @ <0.0001 CFM/ft ²)

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.