

TECHNICAL DATA SHEET

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

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
	Grey	Initial	0.35	0.87
		3 Yr. Aged	0.34	0.90
CA Title 24 ENERGY STAR®	White	Pass	0.77	0.87
	White	Initial	0.77	0.87
LEED® (SRI)	White	Initial	95	
		3 Yr. Aged	85	
	Grey	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

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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, 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	0.11	
	Brittleness Point, max, -40°F	D 2137	No Cracks	Pass	
	Ozone Resistance	D1149	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	0.19	
	Linear Dimensional Change, max, % (after 6 hrs @ 158°F)	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.

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SUPPLEMENTAL TESTING

Physical Properties	ASTM Test Method	Standard for ASTM D 6878 (Min.)	NURAPLY TPO – 1.5 mm Result
Dynamic Puncture	D 5635	N/A	Pass @ 25 Joules
Static Puncture	D 5602	N/A	Pass @ 44 lb (20 kg)
Impact Resistance of Bituminous Roofing Systems	D 3746	N/A	Pass - minor indentations
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	371 lb (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)

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