

Meets or exceeds the requirements of ASTM D 6878

Features and Components

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

Grey	White
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System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	CA	HW	HA	CA	HW	SA
Do not use with Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	AD	MF	AD	MF	AD	BA
Compatible with the selected Single Ply systems above							

Key: HA=Hot Applied CA=Cold Applied HW=Heat Weldable SA=Self Adhered MF=Mechanically Fastened AD=Adhered BA=Ballasted

Energy and the Environment

Standard		Reflectivity	Emissivity
CRRC®	White	Initial	0.77
		3 Yr.Aged	0.70
	Grey	Initial	0.35
		3 Yr.Aged	0.34
CA Title 24	White	Pass	0.77
ENERGY STAR®	White	Initial	0.77
		3 Yr.Aged	0.70
LEED® (SRI)	White	Initial	95
		3 Yr.Aged	85
	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.

Warranty Information

Product	Warranty Period
duroTUF TPO	20 Yrs

Installation/Application

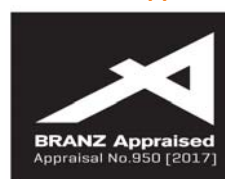


Refer to Waterproofing Systems duroTUF TPO manual and detail drawings for instructions.

Packaging and Dimensions

Roll Widths	3.05m
Roll Lengths	30.48m
Roll Coverage	92.9m ²

Codes and Approvals



Refer to Waterproofing Systems Safety Data Sheet prior to using this product. The Safety Data Sheet is available on our website www.waterproofing.co.nz or phone: 09 579 1460 to request a copy.

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Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	duroTUF TPO FB 1.52mm	
				MD*	XMD**
Strength	Breaking Strength, min, lbf (N)	D 751	220 (976)	499 (2,220)	450 (2,002)
	Elongation at Break, min %	D 751	15	29	27
	Tearing Strength, min, lbf (N)	D 751	45 (200)	91 (404)	146 (649)
	Factory Seam Strength, min, lbf (N)	D 751	66 (290)	171 (761)	
Longevity	Thickness, min, in.	D 751	+/- 10% from Nominal	0.060 (Nominal)	
	Thickness Over Scrim, min, in. (mm)	D 7635	0.015	0.027(0.686)	
	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 6hrs @ 158°F)	D 1204	±1.0	<0.2	
Weather Performance	Accelerated Weathering, min	G 151 & G 155	10,080 kj/m ² •nm @ 340nm (4,000hrs @ 0.70W)	10,080 kj/m ² (4,000 hrs)	
	Cracking (@7x magnification)	G 155	No Cracks	Pass	

¹duroTUF TPO FB 1.52mm is comprised of a 1.52mm duroTUF TPO membrane and an integral fleece backing.

The given physical properties are based on the duroTUF TPO 1.52mm 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 6787 (Min.)	duroTUF TPO FB 1.52mm Result
Dynamic Puncture	D 5635	N/A	Pass @ 27.5 Joules
Static Puncture	D 5602	N/A	Pass @ 44 lb (20 kg)
Reflectance	C 1549	N/A	78%
Emittance	C 1371	N/A	0.87

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