

DESCRIPTION & USE

LEXCAN HI-TUFF TPO FLEECE-BACKED HA MEMBRANE is a premium, heat weldable, thermoplastic polyolefin (TPO) single ply roofing membrane, for use with hot asphalt, in new construction and re-roofing applications. This membrane consists of two plies, internally reinforced with a fully encapsulated fabric scrim and is enhanced with a heavy polyester fleece backing.

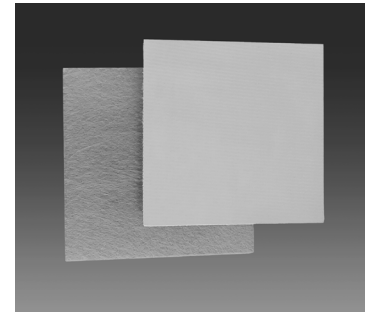
HI-TUFF TPO FLEECE-BACKED HA MEMBRANE meets or exceeds the requirements of ASTM D 6878.

FEATURES & BENEFITS

Heavy Polyester Fleece Backing - Provides significant benefits in terms of strength, durability, adhesion and waterproofing for hot asphalt adhered systems.

Optimized TPO Formulation - Provides outstanding UV resistance, heat-aging properties, ozone resistance, cool roof reflectivity and overall weather resistance.

Reliable Heat-Welded Seams - Thermofused, molecularly bonded seams.



Super Strong - The fully encapsulated fabric reinforcement provides high breaking and tearing strengths.

Energy Saving - Studies have shown that a light-coloured roof surface can significantly reduce air conditioning costs in the Summer and contribute to reducing a local urban heat island effect.

Proven Performance - HI-TUFF TPO MEMBRANE have been installed on thousands of projects and in successful use since the 1990s.

TECHNICAL DATA

*MD=Machine Direction **XMD=Cross-Machine Direction

PHYSICAL PROPERTIES	ASTM Test Method	Standard for ATSM D 6878 (Min)	3.81 mm - (150-mil)		4.45 mm - (175-mil)	
			MD*	XMD*	MD*	XMD*
Breaking Strength, min lbf (N):	D 751	220 (976)	499 (2.220)	450 (2.002)	545 (2.424)	508 (2.260)
Elongation at Break, min %:	D 751	15	29	27	33	33
Tearing Strength, min lbf (N):	D 751	45 (200)	91 (404)	146 (649)	64 (285)	185 (823)
Factory Seam Strength, min, lbf (N):	D 751	66 (290)	171 (761)		171 (761)	
Thickness, min, in.:	D 751	+/- 10% from Nominal	0.060 (Nominal)		0.080 (Nominal)	
Thickness Over Scrim, min, in. (mm):	D 7635	0.015	0.027 (0.686)		0.033 (0.84)	
Water Absorption, max %:	D 471	3.0	0.08		0.42	
Brittleness Point, max, - 40°C (- 40°F):	D 2137	No Cracks	Pass		Pass	
Ozone Resistance:	D 1149	No Cracks	-		Pass	
Properties after Heat Aging @ 116°C (240°F):	D 573	Pass/Fail	Pass		Pass	
Breaking Strength, % (after aging):	D 751	90	> 90	> 90	> 90	> 90
Elongation, % (after aging):	D 751	90	> 90	> 90	> 90	> 90
Tearing Strength, % (after aging):	D 751	60	> 60	> 60	> 60	> 60
Weight Change, max, % (after aging):	D 751	± 1.0	0.25		0.25	
Linear Dimensional Change, max, % (after 6 hrs 70°C (158°F):	D 1204	± 1.0	<0.2		<0.1	
Accelerated Weathering, min:	G151 & G155	10.080 kJ/m ² · nm @ 340 nm (4.000 hrs @ 0.70 W)	10.080 kJ/m ² (4.000 hrs)		10.080 kJ/m ² (4.000 hrs)	
Cracking (@7x magnification):	G155	No Cracks	Pass		Pass	

Note: The reported values are based on samples tested of this product. The reported values represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations.

ENERGY & THE ENVIRONMENT

STANDARD		REFLECTIVITY	EMISSIVITY	
CCRC®	White	Initial:	0.77	0.87
		3 Yr. Aged:	0.70	0.86
CA Title 24	White	Pass:	0.77	0.87
LEED® (SRI)	White	Initial:	95	
		3 Yr. Aged:	85	
Recycled Content	Post-consumer:		0%	
	Post-industrial:		5%	

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

APPROVALS & COMPLIANCES



PACKAGING & COVERAGE

3.81 mm (150-mil)

ROLL WIDTH	ROLL LENGTH	ROLL COVERAGE
3.05 m (10')	22.86 m (75')	69.72 m ² (750 ft ²)

Available colours: White

4.45 mm (175-mil)

ROLL WIDTH	ROLL LENGTH	ROLL COVERAGE
3.05 m (10')	15.24 m (50')	46.45 m ² (500 ft ²)

Available colours: White

PRODUCT COMPATIBILITY

HI-TUFF TPO FLEECE-BACKED HA MEMBRANE is compatible with the following Application Methods:

- Asphalt Adhered

INSTALLATION

Refer to HI-TUFF TPO application guides and detail drawings for instructions.

WARRANTY

Superior installation quality and long-term performance can be guaranteed with comprehensive LEXGUARD warranty packages. To provide the best assurance of a quality installation, projects with ESSENTIAL, ULTIMATE, and EXTREME packages are normally inspected both during installation and after completion by a LEXCAN technical representative.