

# TM800-T SERIES

## TECHNICAL DATASHEET

<b>Geomembrane (GMB) type</b>	Textured/textured (T)
<b>Composition</b>	Linear low density polyethylene (LLDPE)
<b>Main function</b>	Impermeabilisation

Property	Test Method	Unit	Frequency <sup>(1)</sup>	TM840-T	TM860-T	TM880-T	TM8-100-T
<b>Physical</b>							
Nominal thickness	-	mm	-	1.00 (40 mils)	1.50 (60 mils)	2.00 (80 mils)	2.50 (100 mils)
Thickness (min. avg.)	ASTM D5199	mm	Every roll	0.95	1.43	1.90	2.38
Lowest individual 8/10 values	ASTM D5594	mm	Every roll	0.90	1.35	1.80	2.25
Lowest individual 10/10 values	ASTM D5594	mm	Every roll	0.85	1.28	1.70	2.13
Asperity height (min. avg.)	ASTM D7466	mm	Every roll	0.4	0.4	0.4	0.4
Melt index-190/2.16 (max.)	ASTM D1238	g/10 min	1/batch	1.0	1.0	1.0	1.0
Sheet density <sup>(2)</sup>	ASTM D7492	g/cc	Every 10 rolls	≤ 0.939	≤ 0.939	≤ 0.939	≤ 0.939
Carbon black content <sup>(3)</sup>	ASTM D4218	%	Every 2 rolls	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon black dispersion	ASTM D5596	Category	Every 10 rolls	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D3895	min	Formulation	100	100	100	100
<b>Mechanical</b>							
Stength at break <sup>(4)</sup>	ASTM D6693	kN/m	every 2 rolls	18	23	31	39
Elongation at break <sup>(4)</sup>	ASTM D6693	%	every 2 rolls	250	400	400	400
2% Modulus (max.)	ASTM D5323	kN/m	Formulation	420	630	840	1050
Tear resistance <sup>(4)</sup>	ASTM D1004	N	every 6 rolls	110	165	220	265
Puncture resistance <sup>(4)</sup>	ASTM D4833	N	every 6 rolls	250	375	500	625
Dimensional stability <sup>(4)</sup>	ASTM D1204	%	Certification	± 2	± 2	± 2	± 2
Multi-axial tensile (min.)	ASTM D5617	%	Formulation	30	30	30	30
Oven aging- % retained 90 days	ASTM D5721						
STD OIT <sup>(4)</sup>	ASTM D3895	%	Formulation	35	35	35	35
HP OIT <sup>(4)</sup>	ASTM D5885	%		60	60	60	60
UV resistance-% retained 1600h	GRI -GM11						
HP-OIT <sup>(4)</sup>	ASTM D5885	%	Formulation	35	35	35	35
<b>Dimensions (may vary ± 1%)</b>							
Width X length	-	m	-	6.80 X 237.7	6.80 X 164.6	6.80 X 121.9	6.80 X 97.5

This technical informations comes from the manufacturer and was transcribed by Texel. All values are nominal test results, except when otherwise specified.

1-Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lb (or one railcar). / 2 - ASTM D1505 and ASTM D792 give the same results

3 - ASTM D1603 and ASTM D4218 give the same results / 4 - Minimum average value on the basis of 5 specimens each direction (MD & TD)