

TM800 SERIES

TECHNICAL DATASHEET

Geomembrane (GMB) type	Smooth
Composition	Linear low density polyethylene (LLDPE)
Main function	Impermeabilisation

Property	Test Method	Unit	Frequency ⁽¹⁾	TM840	TM860	TM880	TM8-100
Physical							
Thickness (min. avg.)	ASTM D5199	mm	Every roll	1.00 (40 mils)	1.50 (60 mils)	2.00 (80 mils)	2.50 (100 mils)
Thickness (min.)	ASTM D5199	mm	Every roll	0.90	1.35	1.80	2.25
Melt index-190/2.16 (max.)	ASTM D1238	g/10 min	1/batch	1.0	1.0	1.0	1.0
Sheet density ⁽²⁾	ASTM D792	g/cc	Every 10 rolls	≤ 0.939	≤ 0.939	≤ 0.939	≤ 0.939
Carbon black content ⁽³⁾	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
Mechanical							
Strength at break ⁽⁴⁾	ASTM D6693	kN/m	Every 2 rolls	29	44	56	70
Elongation at break ⁽⁴⁾	ASTM D6693	%	Every 2 rolls	800	800	800	800
2% Modulus (max.)	ASTM D5323	kN/m	Formulation	420	630	840	1050
Tear resistance ⁽⁴⁾	ASTM D1004	N	Every 5 rolls	100	150	205	255
Puncture resistance ⁽⁴⁾	ASTM D4833	N	Every 5 rolls	275	415	550	690
Dimensional stability ⁽⁴⁾	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 ⁽⁴⁾	ASTM D3895	%	Formulation	35	35	35	35
HP OIT ⁽⁴⁾	ASTM D5885	%		60	60	60	60
UV resistance-% retained 1600h	GRI -GM11						
HP-OIT ⁽⁴⁾	ASTM D5885	%	Formulation	35	35	35	35
Dimensions (may vary ± 1%)							
Width X length	-	m	-	6.80 X 237.7	6.80 X 158.5	6.80 X 121.9	6.80 X 97.5

This technical information 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)

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