

# TM800i SERIES

## TECHNICAL DATASHEET

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

Property	Test Method	Unit	Frequency <sup>(1)</sup>	TM840i	TM860i	TM880i	TM8-100i
<b>Physical</b>							
Thickness (min. avg.)	ASTM D5199	mils	Every roll	40.0	60.0	80.0	100.0
Thickness (min.)	ASTM D5199	mils	Every roll	36.0	54.0	72.0	90.0
Sheet density <sup>(2)</sup>	ASTM D1505	g/cc	Every 10 rolls	≤ 0.939	≤ 0.939	≤ 0.939	≤ 0.939
Carbon black content <sup>(3)</sup>	ASTM D792	%	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>							
Strength at break <sup>(4)</sup>	ASTM D6693	ppi	Every 2 rolls	168	252	320	400
Elongation at break <sup>(4)</sup>	ASTM D6693	%	Every 2 rolls	800	800	800	800
2% Modulus (max.)	ASTM D5323	ppi	Formulation	2400	3600	4800	6000
Tear resistance <sup>(4)</sup>	ASTM D1004	lbf	Every 5 rolls	22	34	46	57
Puncture resistance <sup>(4)</sup>	ASTM D4833	lbf	Every 5 rolls	62	93	124	155
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 STD OIT <sup>(4)</sup>	ASTM D5721 ASTM D3895	%	Formulation	35	35	35	35
HP OIT <sup>(4)</sup>	ASTM D5885	%		60	60	60	60
UV resistance-% retained 1600h HP-OIT <sup>(4)</sup>	GRI -GM11 ASTM D5885	%	Formulation	35	35	35	35
<b>Dimensions (may vary ± 1%)</b>							
Width X length	N/A	ft	N/A	22.3 X 780	22.3 X 520	22.3 X 400	22.3 X 320

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)