

# TECHNICAL DATA SHEET

## TM800 SERIES



<b>Product</b>	Smooth
<b>Composition</b>	Linear low density polyethylene (LLDPE)
<b>Main Function</b>	Impermeabilisation

Property	Test Method	Unit	Frequency <sup>(1)</sup>	Texel TM840	Texel TM860	Texel TM880	Texel TM8-100
<b>Physical</b>							
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			
Sheet density <sup>(2)</sup>	ASTM D792	g/cc	Every 10 rolls	≤ 0.939			
Carbon black content <sup>(3)</sup>	ASTM D4218	kN/m	Every 2 rolls	2.0 - 3.0			
Carbon black dispersion	ASTM D5596	Category	Every 10 rolls	Cat. 1 / Cat. 2			
OIT - standard (avg.)	ASTM D3895	min	Formulation	100			
<b>Mechanical</b>							
Strength at break <sup>(4)</sup>	ASTM D6693	kN/m	Every 2 rolls	29	44	56	70
Elongation at break <sup>(4)</sup>	ASTM D6693	%	Every 2 rolls	800			
2% Modulus (max.)	ASTM D5323	kN/m	Formulation	420	630	840	1050
Tear resistance <sup>(4)</sup>	ASTM D1004	N	Every 5 rolls	100	150	205	255
Puncture resistance <sup>(4)</sup>	ASTM D4833	N	Every 5 rolls	275	415	550	690
Dimensional stability <sup>(4)</sup>	ASTM D1204	%	Certification	± 2			
Multi-axial tensile (min.)	ASTM D5617	%	Formulation	30			
Oven aging- % retained 90 days	ASTM D5721	%	Formulation	35			
STD OIT <sup>(4)</sup>	ASTM D3895	%		60			
HP OIT <sup>(4)</sup>	ASTM D5885	%					
UV resistance-% retained 1600h	GRI -GM11	%	Formulation	35			
HP-OIT <sup>(4)</sup>	ASTM D5885	%					
<b>Dimensions</b>							
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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