TECHNICAL DATA SHEET

TM400 SERIES

Product	Smooth geom	Smooth geomembrane							
Composition	High density p	High density polyethylene (HDPE) Impermeabilisation							
Main Function	Impermeabili								
Property	Test Method	Unit	Frequency ⁽¹⁾	Texel TM430	Texel TM440	Texel TM460	Texel TM480	Texel TM4-100	
Physical									
Thickness (min. avg.)	ASTM D5199	mm	Every roll	0.75 (30 mils)	1.00 (40 mils)	1.50 (60 mils)	2.00 (80 mils)	2.50 (100 mils)	
Thickness (min.)	ASTM D5199	mm	Every roll	0.68	0.90	1.35	1.80	2.25	
Resin density	ASTM DI 505	g/cc	1/batch	> 0.932	> 0.932	> 0.932	> 0.932	> 0.932	
Melt index-190/2.16 (max .)	ASTM D1238	g/10 min	1/batch	1.0	1.0	1.0	1.0	1.0	
Sheet density ⁽²⁾	ASTM D792	g/cc	Every 10 rolls	≥ 0.940					
Carbon black content (3)	ASTM D4218	%	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	_		
Mechanical									
Stength at yield ⁽⁴⁾	ASTM D6693	kN/m	Every 2 rolls	11.6	15	23	31	39	
Elongation at yield ⁽⁴⁾	ASTM D6693	%	Every 2 rolls			13			
Stength at break ⁽⁴⁾	ASTM D6693	kN/m	Every 2 rolls	21	28	43	57	71	
Elongation at break (4)	ASTM D6693	%	Every 2 rolls			700			
Tear resistance (4)	ASTM D1004	N	Every 5 rolls	93	125	187	250	311	
Puncture resistance (4)	ASTM D4833	N	Every 5 rolls	267	356	534	695	800	
Dimensional stability	ASTM D1204	%	Certified			±2			
Stess crack resistance (SP-NCTL)	ASTM D5397	hr	1/batch	500					
Oven aging - % retained 90 days HP-OIT ⁽⁴⁾	ASTM D5721 ASTM D5885	%	Formulation			80			
UV resistance-% retained 1600h HP-OIT ⁽⁴⁾	GRI -GM11 ASTM D5885	%	Formulation	50					
Dimensions (may vary ± 1%)									
Width X length	-	m	-	6.80 X 304.8	6.80 X 237.7	6.80 X 158.5	6.80 X 121.9	6.80 X 97.5	

This technical informations cornes from the manufacturer and was transcribed by Texel.

Ali values are nominal test results, except when specified.

1 - Testing frequency based on standard roll dimensions and one batch is approximately 18,000 lbs (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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