

100 MIL NONWOVEN COMPOSITE PP

Material: 10 mil NonWoven - Geomembrane Composite
 Sample Identification: PP/10 mil.PP/PP
 TRI Log #: E2352-57-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199, with 0.25" pressure foot and 7.6 psi pressure) - GM Gauge												
Thickness (mils)	116	110	115	94	104	119	116	107	96	100	108	9
											94	<< min
Thickness (ASTM D 5199, with 2.22" pressure foot and 0.29 psi pressure) - GT Gauge												
Thickness (mils)	123	123	121	118	126	129	129	114	124	111	122	6
											111	<< min
Tensile Properties (ASTM D 6693/GRI GM 13 , 2 ipm strain rate)												
A Break Strength (ppi)	79	111	90	97	88						93	12
B Break Strength (ppi)	108	90	93	108	118						103	12
A Break Elongation (%)	20	26	21	26	18						22	4
B Break Elongation (%)	24	25	24	26	31						26	3
Puncture Resistance (ASTM D 4833)												
Puncture Strength (lbs)	242	269	284	251	228						255	22
Tear Resistance (ASTM D 1004)												
A Tear Strength (lbs)	44	50	52	50	41	42	40	42	50	44	45	4
B Tear Strength (lbs)	63	51	65	69	64	76	67	70	73	76	68	7
Dimensional Stability (ASTM D 1204, exposure: 100C for 1 hour)												
MD Dim. Stability (% change)	-0.17	-0.88									-0.53	0.50
TD Dim. Stability (% change)	-0.27	-0.07									-0.17	0.14
Low Temperature Brittleness (ASTM D 746, NSF 54, -30C)												
MD (Pass/Fail)	Pass	Pass	Pass	Pass	Pass						% passing	
TD (Pass/Fail)	Pass	Pass	Pass	Pass	Pass						100	
											100	

MD Machine Direction TD Transverse Direction NA Not Available

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



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