



TE-PPR

POLYPROPLENE REINFORCED GEOMEMBRANE

PROPERTY	TEST METHOD	TYPICAL VALUES		
Gauge (nominal)		0.36 mil (0.90)mm	0.45 mil (1.14)mm	0.60 mil(1.52)mm
Plies, Reinforcing		1	1	1
Thickness mils. Minimum 1. Overall, 2. Over scrim	ASTM D-751 Optical Method	0.36 mil (0.90 mm) 11 mil (0.28 mm)	0.044 mil (1.12 mm) 12 mil (0.30 mm)	0.67 mil (1.45 mm) 18 mil (0.46 mm)
Breaking Strength-Fabric min.	ASTM D-751 Method A	275 lb _f (1.22 kN)	300 lb _f (1.34 kN)	325 lb _f (1.45 kN)
Low Temperature	ASTM D-2136 1/2in. Mandrel, 4hrs., Pass	-65°F (-54°C)	-65°F (-54°C)	-65°F (-54°C)
Puncture Resistance, min.	FTMS 101C Method 2031	350 lbs (1.56 kN)	400 lbs (1.78 kN)	425 lbs (1.89 kN)
Tear Strength, min	ASTM D-5884	100 lbs (0.45 kN)	100 lbs (0.45 kN)	100 lbs (0.45 kN)
Dimensional Stability (% chg, max)	ASTM D-1204 180°F/82°C, 1hr	-0.5 (-0.5)	-0.5 (-0.5)	-0.5 (-0.5)
Hydrostatic Resistance min. psi. (Mpa)	ASTM D-751 Method A, Proc 1	375 psi (2.58 MPa)	400 psi (2.75 MPa)	425 psi (2.93 MPa)
Ply Adhesion min, lbs/in (kN/m)	ASTM D413 Machine Method Mod.	30 lbs/in (5.25 kN/m)	30 lbs/in (5.25 kN/m)	30 lbs/in (5.25 kN/m)
Water Absorption max. % wt chg	ASTM D-471, 30 days @ 70°F (21°C)	< 1.0	<1.0	<1.0
Env. Stress Crack Resistance (Min. hrs w/o failure)	ASTM D-1693 3000 hrs	Unaffected by ESC	Unaffected by ESC	Unaffected by ESC
UV Resistance	ASTM G26 Xemon Arc @ 80°C, 4000 hrs.	Pass	Pass	Pass
TYPICAL FABRICATED SEAM PROPERTIES*				
Bonded seam strength	ASTM D-751, Modified	175 lbs (0.78 kN/m)	200 lbs (0.89 kN/m)	220 lbs (0.98 kN/m)
Peel Adhesion lbs (kN/m)	ASTM D-413, Modified	20 lbs (3.5 kN/m) or FTB	20 lbs (3.5 kN/m) or FTB	20 lbs (3.5 kN/m) or FTB

*Factory bonded seam strength is the responsibility of the fabricator.

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