

## 36mil REINFORCED POLYPROPYLENE RPP Specification Sheet

A fusion-weldable polyester reinforced sheet designed for floating covers, [liners](#) and caps, specifically formulated for long-term use in both buried and exposed [applications](#). The [membrane](#) is based on a UV-stabilized polypropylene co-polymer, which does not require polymeric or liquid plasticizers to maintain flexibility

Physical Property	Test Method	Property Of Unaged Sheet	Property After Aging 28 days @ 176°F
Tolerance on nominal Thickness	ASTM D 751	±10%	
Thickness over scrim	ASTM D 4637 Optical Method	0.011 in (0.279 mm)	
Mass per unit area	ASTM D5261	0.17 lb/ft <sup>2</sup> or 77 g/ft <sup>2</sup> or 0.83 kg/m <sup>2</sup> typical	
Breaking strength	ASTM D 751 Grab Method	250 lbf (1.1 kN) min. 300 lbf (1.3 kN) typical	250 lbf (1.1 kN) min. 300 lbf (1.3 kN) typical
Elongation at break of fabric	ASTM D 751	25% typical	25% typical
Tearing Strength	ASTM D 5884 Tongue Tear	55 lbf (245 N) min 100 lbf (445 N) typical	55 lbf (245 N) min 100 lbf (445 N) typical
Low temperature flexibility	ASTM D 2136 1/8 in. mandrel 4 hour @ temp.	-40°F (-40°C) max -50°F (-46°C) typical	
Linear Dimensional Change (shrinkage)	ASTM D 1204		±1.0% max. -0.5% typical
Ozone Resistance, 100 pphm 168 hours	ASTM D 1149	No Cracks	No Cracks
Resistance to water (distilled) absorption after 30 days immersion 122°F (50°C) Change in mass	ASTM D 471 (coating compound)	1.0% max 0.5% typical	
Hydrostatic Resistance	ASTM D 751	350 lbf/in <sup>2</sup> or psi (2.4 MPa) min.	350 lbf/in <sup>2</sup> or psi (2.4 MPa) min
Mullen Burst	Procedure A	400 lbf/in <sup>2</sup> or psi (2.8 MPa) typical	400 lbf/in <sup>2</sup> or psi (2.8 MPa) typical
Field seam strength Seam tested in peel after weld	ASTM D 1876	30 lbf/in (5.25 kN/m) min.	60 lbf/in (10.5 kN/m) typical
Water vapor permeance	ASTM E 96	0.10 perms max. 0.05 perms typical	
Puncture resistance	FTM 101C Method 2031	250 lbf (1110 N) min. 300 lbf (1330 N) typical	250 lbf (1110 N) min. 300 lbf (1330 N) typical
Resistance to xenon-arc weathering <sup>2</sup> Xenon-Arc, 10, 080 kJ/m <sup>2</sup> total radiant exposure, visual condition at 10X	ASTM G 155 0.70 W/m <sup>2</sup> 80° C B.P.T.	No Cracks No loss of breaking or tearing strength	

<sup>2</sup>Approximately equivalent to 8000 hours exposure at 0.35 W/m<sup>2</sup> irradiance 4/03