

36 mil 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 UV-stabilized polypropylene copolymer, 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	0.010 in (0.254 mm) min	
Mass per unit area	ASTM D5261	0.17 lb/ft ² or 77 g/ft ² Or 0.83 kg/m ² typical	200 lbf (0.9 kN) min.
Breaking strength	ASTM D 751 Grab Method	200 lbf (0.9 kN) min. 260 lbf typical	260 lbf typical
Elongation at break of fabric	ASTM D 751	25 % typical	25%
Tearing strength	ASTM D 5884 Tongue Tear	80 lbf (356 N) min 130 lbf (578 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.
Ozone Resistance, 100 pphm 168 hours	ASTM D 1149	No Cracks	-0.5% typical 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 (Mullen Burst)	ASTM D 751 Procedure A	350 lbf/in ² or psi (2.4 MPa) min. 400 lbf/in ² or psi (2.8 MPa) typical	350 lbf/in ² or psi (2.4 MPa) min. 400 lbf/in ² or psi (2.8 MPa) typical
Field Seam strength Seam tested in peel after weld	ASTM D 4437 1 in. wide	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	ASTM D 4833 (index puncture)	85 lbf (378 N) min. 110 lbf (489 N) typical	
Resistance to xenon-arc weathering ² Xenon-Arc, 10,080 kJ/m ² total radiant exposure, visual condition at 10x	ASTM G 155 0.70 W/m ² 80°C B.P.T.	No Cracks No loss of breaking or tearing strength	

A approximate equivalent to 12,000 hours exposure at 0.35 W/m² irradiance 3/06



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