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RPE - REINFORCED POLYETHYLENE

RPE is a proven solution to many containment needs due to its excellent puncture resistance and UV stability.

Colorado Lining can supply you with custom sized panels or facilitate a full installation with one of our certified installation crews. We want to work with you to make your job a success.

Products & Features:

- Warranty Info:
 - 24 MIL: 10 YEAR
 - 36 MIL: 15 YEAR
 - 45 MIL: 20 YEAR
- Fish Friendly
- Flexible
- Available In Custom Sized Panels
- Extremely Durable
- Quick Installation
- UV Stable
- Available In 24, 30, 36, & 45 Mils

Uses & Applications:

- Wastewater Treatment Plants
- Agriculture Ponds
- Baffle Curtains
- Oil and Gas Temporary
- Evaporation Ponds
- Golf Course Ponds
- Drop-In & Large Tank Liners
- Irrigation Reservoirs & Canals

- **Project Photo: Hangman Valley Golf Course in Spokane, WA**
- **Pond Liner**
- **27,000 SF 36 Mil RPE**





RPE Product Data Sheet

J – Series

Available in 30, 36, & 45 mil

Properties	Test Method	30 mil		36mil		45mil	
		Min Roll Averages	Typical Roll Averages	Min Roll Averages	Typical Roll Averages	Min Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		** Extrusion laminated with encapsulated tri-directional scrim reinforcement.					
Ply Adhesion	ASTM D 413	16 lbs	20lbs	19 lbs	24 lbs	25 lbs	31lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31 DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature	180° F	180° F	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature	-70° F	-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**30 mil, 36 mil & 45 mil are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. 30 mil, 36 mil & 45 mil are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.