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PRODUCT DATA SHEET

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PDS Date 10/05/04

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PRODUCT NAME AND SYNONYMS: **PVC .045—.048 MIL MEMBRANE**

<u>Parameters</u>	<u>ASTM Test Method</u>	<u>ASTM D-4434 Spec. Requirement</u>	<u>Typical physical Properties</u>
Reinforcing Material	—		Polyester
Overall Thickness, min, inches (mm)	D751	0.045 (1.14)	0.48 (1.2)
Breaking Strength, min., lbf/in. (KN/m)	D751	200 (35.0)	230 (40.0)
Elongation at Break, min.	D751	15%	20%
Seam Strength*, min. (% of breaking strength)	D751	75	85
Retention of Properties After Heat Aging	D3045	—	
Tensile Strength, min., (% of original)	D751	90	95
Elongation, min.m (% of original)	D751	90	90
Tearing Strength, min., lbf (N)	D1004	45.0 (200)	50 (220.0)
Low Temperature Bend. -40°F (.40 °C)	D2136	Pass	Pass
Accelerated Weathering Test (Xeron Arc)	D2565	5,000 Hours	10,000 Hours
Cracking (7X magnification)	---	None	None
Discoloration (by observation)	---	Negligible	Negligible
Crazing (7X magnification)	---	None	None
Linear Dimensional Change	D1204	0.5% max.	0.1%
Weight Change After Immersion in Water	D570	± 3.0% max.	25%
Static Puncture Resistance. 33 lb (15 kg)	D5602	Pass	Pass
Dynamic Puncture Resistance, 14.7 ft-lbf (20J)	D5635	Pass	Pass
Albedo	E892	---	0.83
Emissivity	LBNL	---	0.92
Solar Reflective index (SRI)	---	---	>104

Failure occurs through membrane rupture, not seam failure.

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