The COOLEY Group

Revision Date: **8-27-08**
Ref: **10-17-05**
By: **LSR**

PRODUCT SPECIFICATION

CoolGuard® MPK80

1.0 BASE FABRIC

1.1	Base Fabric Weight	2.7 *oz/yd²*	(92 *g/m²*)
1.2	Fiber	Polyester / Knit	

2.0 COATED FABRIC

2.1	Total Weight (nominal)	80 *oz/yd²*	(2,720 *g/m²*)
2.2	Thickness (±10%)	80 *mils*	(2.03 *mm*)
2.3	Coating Type	Polymer Alloy	
2.4	Coating Distribution	50 / 50	
2.5	Sealing Properties	**X** Dielectric	**X** Thermal

3.0 MATERIAL PROPERTIES (minimum)		Standard		Metric		ASTM TEST METHODS
3.1	Tensile Strength, Grab					
	Warp (MD)	250	*lbs*	1,110	*N*	D751A
	Fill (TD)	200	*lbs*	890	*N*	
3.2	Tensile Strength, 1” Strip					
	Warp (MD)	130	*lbs*	578	*N*	D751B
	Fill (TD)	120	*lbs*	534	*N*	
3.3	Tear Strength, Tongue					
	Warp (MD)	40	*lbs*	178	*N*	D751B (mod)
	Fill (TD)	30	*lbs*	133	*N*	
3.4	Puncture, Flat Tip	95	*lbs*	423	*N*	D4833
3.5	Puncture, Ball	350	*lbs*	1,560	*N*	D751
3.6	Puncture, Pyramid	200	*lbs*	890	*N*	FTMS 101C, 2031
3.7	Hydrostatic Resistance	350	*psi*	2.41	*MPa*	D751-A
3.8	Dimensional Stability (180°F/1 hr)	2	*% max*	2	*% max*	D1204
3.9	Ply Adhesion	20	*lbs/2 in*	89	*N/5 cm*	D751 (mod)
3.10	Low Temp Bend	-20	*°F max*	-29	*°C*	D2136
3.11	Abrasion Resistance (H18/1kg)	10,000	*cycles*	10,000	*cycles*	D3885
3.12	Dead Load Seam Strength	100	*lbs @ 70°F*	445	*N @ 21°C*	D751
		50	*lbs @ 160°F*	222	*N @ 71°C*	

A variety of standard widths and colors are available. Contact Cooley Engineered Membranes for details.