# *The COOLEY Group*

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

## PRODUCT SPECIFICATION

# CoolGuard® MPK60

### 1.0 BASE FABRIC

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

### 2.0 COATED FABRIC

| | | | |
|---|---|---|---|
| 2.1 | Total Weight (nominal) | 60 *oz/yd²* | (2,035 *g/mm²*) |
| 2.2 | Thickness (±10%) | 60 *mils* | (1.52 *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/in* | 228 | *N/cm* | D751B |
| | Fill (TD) | 120 | *lbs/in* | 210 | *N/cm* | |
| 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 max* | 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.*