# POLYSURLYN DATA

Polysurlyn Moisture Retarder (PSMR) replaces 1 mil Polykraft Moisture Retarder (formerly called moisture barrier) as the standard moisture retarder.

Transition period – 1st Quarter 2006
(Surlyn is trademark of Dupont® Co.)

Polysurlyn offers superior resistance to moisture when compared to 1 mil polykraft moisture retarder.

3 mil thickness of co-extruded polyethylene and Dupont's surlyn provides substantially more protection from pinholes, providing better resistance to corrosion from within.

No kraft paper to absorb and hold moisture.

Physical characteristics:

| | Polysurlyn MR | 1 mil polykraft MR |
|---|---|---|
| WVTR | .21 | 1.1 |

WVTR = Water Vapor Transmission Rate (grams/100 square inches/day)

Auto ignition temperature of Kraft paper is approximately 450º F. Thermogravimetric analysis shows Polysurlyn does not begin to decompose until around 410º F. Polysurlyn has auto ignition above 600º F.

Insulation systems are generally designed to keep the surface temperature of the insulation from exceeding 140ºF for personnel protection. DuPont and Ultramar have successfully used polysurlyn as their moisture retarder on all their metal jacketing over insulation for over 15 years.