

PHYSICAL PROPERTIES OF DYPERM WRAP VAPOR BARRIER SHEETING

Physical Properties ¹	ASTM Method	English Units ²	Metric Units
Substrate Thickness		2.4 mils	0.0610 mm
Polyester layer		0.5 mil	12 microns
Aluminum layer		1.0 mil	26 microns
Basis Weight		69 lbs/ream	113 gsm
Tensile	ASTM C1136		
Machine direction		12,500 psi	86 Mpa
Cross direction		12,500 psi	86 Mpa
Elongation	ASTM D882-02		
Machine direction		49%	49%
Cross direction		45%	45%
Puncture	ASTM D1000	16.7 lbs	75.7 N
WVTR	ASTM E96	0.00 perm	0 ng/N-s
Flame/Smoke Testing	ASTM E84	Flame Spread 10	Smoke Developed 20
Emittance		0.57	0.57
Temperature Resistance		-40F to 240F	-40C to 116C

- (1) All properties are measured at 70°F – 75°+ unless otherwise indicated.
- (2) These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.
- (3) Average value through the foam cross section.
- (4) Frequent and severe thermal cycling can produce dimensional changes significantly greater than those listed here. Special design considerations must be made in systems subject to severe cycling.
- (5) This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

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