



# THERM-ALL

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## WMP BLACK

### BLACK COATING / POLYPROPYLENE / SCRIM / KRAFT

Meets ASTM C1136, Type IV

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Black Coating	Flame Resistant	0.0002 inch	5.1 micron
Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional	5 / inch (MD)	20 / 100 mm (MD)
	Fiberglass/Polyester	4 / inch (XD)	16 / 100 mm (XD)
Kraft	Natural	11 lbs / 3000 ft <sup>2</sup>	18 g / m <sup>2</sup>

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	19 lbs / 1000 ft <sup>2</sup>	93 g / m <sup>2</sup>
Permeance (WVTR)	ASTM E96 Procedure A	0.09 perm (grains/hrft <sup>2</sup> in Hg)	5.17 ng / N's
Bursting Strength	ASTM D774	60 psi	4.2 kg / cm <sup>2</sup>
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 30 lbs/inch width (XD)	7.0 kN / m (MD) 5.3 kN / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 -40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%

FIRE TESTING	UL-723 / ASTM E84	
	Flame Spread	Smoke Developed
Film Exposed	10	10
Kraft Exposed	15	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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