



THERM-ALL

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WCF-50

WHITE FOIL / SCRIM / CORE / METALLIZED POLYESTER

Meets ASTM C1136, Type I, II, III, IV
Tentative Specification

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Foil	Aluminum	0.0003 inch	7.6 micron
Adhesive	Polymeric		
Core	Proprietary	30 lbs / 3000 ft ²	49 g / m ²
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (MD) 5 / inch (XD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Adhesive	Flame Resistant		
Film	Metallized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	29 lbs / 1000 ft ²	142 g / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hrft ² in Hg)	1.15 ng / N's
Bursting Strength	ASTM D774	100 psi	7.0 kg / cm ²
Puncture Resistance	ASTM C1136	90 beach units	2.7 Joules
Tensile Strength	ASTM C1136	60 lbs/inch width (MD) 55 lbs/inch width (XD)	10.5 kN / m (MD) 9.6 kN / m (XD)
Caliper / Thickness	Micrometer	0.009 inch	229 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%
Light Reflectance	ASTM E308	62%	62%

FIRE TESTING	UL-723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	5	0	5	0
Polyester Exposed	15	45	15	45

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

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