DRAGON JACKET INSULATION

DRAGON JACKET S2™

TECHNICAL DATA SHEET

UPDATED 11/7/18

TYPICAL PHYSICAL PROPERTIES

Tensile Strength ASTM D638	± 3,150 psi (22 mpa)
Elongation ASTM D638	± 630%
Hardness (Shore A) ASTM D2240-81	80 ± 5
Hardness (Shore D) ASTM D2240-81	33 ± 5
100% Modulus ASTM D412	572 psi ± 10 (4 mpa)
300% Modulus ASTM D412	1,071 psi ± 10 (7 mpa)
Tear Resistance ASTM D624	314 PLI ± 50 (55 KN/m)
***Exposure Temperature** **Test performed in a dry, static environment*	-109°F to +250°F (-78°C to +121°C)

TEST INFORMATION

Abrasion Resistance ASTM D4060 1,000 g - 10,000 cycles	H-18 Wheel	110 mg lost
Mandrel Bend Test ASTM D522-13	1/4" at -60°F | Passed	

COLORS

Dragon Jacket S2™ is available in high pigment black and silver. Custom colors will be quoted upon request.

TEST METHOD: 3,000 hour QUV Test with 0 degradation. Longer term testing is ongoing, and results will be available upon request.

**It should be noted that Dragon Jacket S2™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.*

TEST METHOD

ASTM C518-10, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.

†The density of the sample was determined by dividing the average weight of the sample by its volume. The weight was measured using a calibrated scale and the volume was determined by measuring the length, width, and height of a sample.

HEAT FLOW METER THERMAL TRANSMISSION (R-VALUE)

Test Specimine ID	1
Test Duration (Minutes)	50
Average Heat Flux (Btu/hr·ft^2)	3.99
Average Thermal Conductance - C (Btu/hr·ft$^{2.0}$F)	0.080
Average Thermal Resistance - R (hr·ft$^{2.0}$F/Btu)	12.53
Average Thermal Resistance -R$_{si}$ (m^2·K/W)	2.21
Average Thermal Resistivity -r (hr·ft$^{2.0}$F/Btu-in)	5.74
Apparent Thermal Conductivity -k (Btu-in/hr·ft$^{2.0}$F)	0.174
Specimen Average Thickness (inches)	2.183
†Specimine Average Density (lbs/ft^3)	5.7

MFG – USA

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