



TYPICAL PHYSICAL PROPERTIES

Tensile Strength ASTM D412-06a	>4,000 psi (27.80 mpa)
Elongation ASTM D412-06a	>300%
Hardness (Shore A) ASTM D2240	N/A
Hardness (Shore D) ASTM D2240	57
100% Modulus ASTM D412-06	1,250 psi ± 100 (8 mpa)
300% Modulus ASTM D412-06	2,300 psi ± 100 (15 mpa)
Tear Resistance ASTM D624	420 PLI ± 50 (73 KN/m)
*Exposure Temperature <small>*Test performed in a dry, static environment</small>	-60°F to +300°F (-50°C to +149°C)

TEST INFORMATION

Abrasion Resistance ASTM D4060 1kg - 1,000 cycles	H-22	62 mg lost
Weatherability QUV	no evidence after 3,000 hours	

COLORS

Dragon Jacket S1™ 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 S1™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.*

HEAT FLOW METER THERMAL TRANSMISSION (R-VALUE)

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

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.

