DRAGON JACKET S-2

PIPE, FITTING, AND TANK INSULATION

DRY 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 (4 mpa) ± 10
300% Modulus	ASTM D412	1,071 psi (7 mpa) ± 10
Tear Resistance	ASTM D624	314 PLi (55.00 KN/m) ± 50
Service Temperature		-109^{0}F to +200^{0}F (-78^{0}C to +93^{0}C)

TEST INFORMATION	
ABRASION RESISTANCE	
ASTM D4060 1,000 g -10,000 cycles	H-18 wheel I 110 mg loss
MANDREL BEND TEST	
ASTM D522-13	1/4" at -60^{0}F I Passed

TEST METHOD

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

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
Specimine Average Thickness (inches)	2.183
†Specimine Average Density (lbs/ft^3)	5.7

COLORS

Dragon Jacket S-1 is available in high pigment black and silver. Custom colors will be quoted upon request.

*It should be noted that Dragon Jacket S-1 is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.

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

**All cured film properties are approximate since processing parameters, admixture types, and quantities change physical properties of the cured elastomer. All samples for above tests were force cured 48 hours or aged for more than three weeks. It is recommended taht the user perform their own independent testing. It is recommended that oxidized surfaces be power washed with 2,500-3,500 psi water pressure to achieve maximum adhesion of Dragon Jacket S-3. If there is a possibility of surface contamination, scrub with a solution of 1/4 tsp. Dawn detergent plus 1 tbsp. of vinegar, per 1 gallon of warm water, followed by a thorough water rinse.*

†*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.*

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