



DRAGON JACKET S-3

PIPE, FITTING, AND TANK INSULATION

| DRY PROPERTIES | | |
|---------------------|---------------|--------------------------------------|
| Tensile Strength | ASTM D638 | ± 5,200 psi (36 mpa) |
| Elongation | ASTM D638 | ± 300% |
| Hardness (Shore A) | ASTM D2240 | 100 ± 5 |
| Hardness (Shore D) | ASTM D2240-81 | 65 ± 5 |
| Service Temperature | | -40°F to +350°F (-45°C to +176°C) |

| TEST INFORMATION | |
|--|---|
| ABRASION RESISTANCE ASTM D4060 1,000 g -10,000 cycles | H-18 wheel 33 mg loss CS-17 wheel 0.06 mg loss |
| MANDREL BEND TEST ASTM D522-93a | Passed Mandrel Size 1" Test Temp -60°F (-51°C) |

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 -°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 |

| COLORS |
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| 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 that 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.