

Butyl Rope

Product Description

ResoNix Butyl Rope is a butyl rubber-based adhesive and sealant compound especially formulated for aggressive adhesion to most commercial substrates without the need for special surface preparation. ResoNix Butyl Rope finds use wherever aggressive adhesion, sound deadening, and/or vibration damping is required. Adhesion is typically 100% cohesive failure on most commercial surfaces. ResoNix Butyl Rope is not affected by freeze-thaw cycles.

Property	Test Method	Typical Values
Color	ASTM D1729	Black
Odor		No objectionable odors at all working temperatures.
Service Temperature		-20°F to 200°F
Cone Penetration, 300 g	ASTM D217	65 ± 5 dmm
% Solids	ASTM C771	>99% by weight
Specific Gravity	ASTM D297	1.78 ± 0.05 g/cm ³
Weight per Gallon		14.8 ± 0.5 pounds per gallon
Tensile Strength	ASTM C907	65 psi with cohesive failure
Freeze-Thaw Stability 25,000 cycles of 1-minute @ 80°F + 3-minutes @ 0°F		Pass
180-degree Peel Strength (ASTM D903 Test Condition)	Substrate	1-hour dwell • Cold rolled steel: 11.0 lbs./inch, cohesive failure • Galvanized steel: 11.0 lbs./inch, cohesive failure • Aluminum: 11.6 lbs./inch, cohesive failure 1000-hrs @ 158°F • Cold rolled steel: 3.0 lbs./inch, cohesive failure • Galvanized steel: 3.3 lbs./inch, cohesive failure • Aluminum: 3.2 lbs./inch, cohesive failure 4-week water soak @ 75°F • Galvanized steel: 14.5 lbs./inch, cohesive failure • Aluminum: 11.5 lbs./inch, cohesive failure
Discoloration from Ultraviolet Light Exposure	ASTM D1148, 2000-hrs UVA-340 exposure	No apparent change
Flammability	FMVSS 302	Pass Burn rate <1-inch/minute.
Shelf Life		Minimum 1-year when stored in the original container at normal warehouse temperatures

FDA Regulation

Meets U.S. Food and Drug Administration (FDA) regulation 21 CFR 175.105 – Indirect food additives: Adhesives and components of coatings.

For substances that may come into contact with food as part of packaging or processing equipment, but are not intended to be added directly to food.

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