

Momentive Performance Materials N-Sil® RTV123 Silicone Modified Alkoxy Adhesive Sealants, Black

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

N-Sil® adhesive sealants are one-component, ready-to-use, and cure to a tough, resilient silicone rubber on exposure to atmospheric moisture at room temperature. Key Performance Properties: Primerless adhesion to many metals and plastics Non-corrosive to aluminum and steel per MIL-A-46146A Lower odor cure than conventional silicone sealants UL recognition (refer to GE Silicones Tech Info Sheet CDS4320 for additional information) One component Cures at room temperature Excellent electrical insulation properties Retains elastomeric properties at temperatures of -60°C (-75°F) to 204°C (500°F) for short periods Excellent weatherability, ozone and chemical resistance Applications: Typical applications include, but are not limited to, sealing vertical joints bonding dissimilar materials such as metal to plastic and glass to aluminum, electrical insulation of wires and terminals, and formed-in-place gasketing. GE Silicones became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-N-Sil-RTV123-Silicone-Modified-Alkoxy-Adhesive-Sealants-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30	30	
Tensile Strength, Ultimate	1.72 MPa	249 psi	
Elongation at Break	350 %	350 %	
Tear Strength	6.100 kN/m	34.84 pli	
Peel Strength	6.14 kN/m	35.0 pli	Glass
	7.01 kN/m	40.0 pli	Aluminum, Cold Rolled Steel, Epoxy, Rigid PVC
	7.89 kN/m	45.0 pli	Glass Filled Polyester

Thermal Properties	Metric	English	Comments
CTE, linear	270 Åµm/m-Å°C @Temperature 20.0 Å°C	150 Åµin/in-Å°F @Temperature 68.0 Å°F	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ftÅ²-Å°F	
Brittleness Temperature	-60.0 Å°C	-76.0 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	
Dielectric Constant	2.8 @Frequency 60 Hz	2.8 @Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	
Dissipation Factor	0.0016 @Frequency 60 Hz	0.0016 @Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Cure Time	20.0 min @Temperature 25.0 Â°C	0.333 hour @Temperature 77.0 Â°F	Tack-free, 50% R.H.
	1440 min @Temperature 25.0 Â°C	24.0 hour @Temperature 77.0 Â°F	Through, 50% RH

Descriptive Properties	Value	Comments
Application rate	500 g/min	3.2 mm orifice @ 621 kPa
Color	Black	
Consistency	Thixotropic Paste	

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