

Momentive Performance Materials RTV6703 One-Component, Modified Alkoxy Adhesive Sealant, Black

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

Material Notes:

RTV6700 Series sealants are neutral cure, one-component, ready to use silicone adhesive sealants that cure to tough resilient silicone rubber on exposure to atmospheric moisture at room temperature. These sealants are standard curing paste consistency products which can be applied to horizontal, vertical and overhead surfaces. They have a long work life which allows for tooling of finished assemblies. Mechanical, electrical, and thermal properties for specimen cured 7 days at 25°C and 50% relative humidity. Key Performance Properties: Primerless adhesion to many metals and plastics Non-corrosive to most substrates Low odor cure One-component product - No mixing required Retain elastomeric properties at temperatures of -60C (-75F) to 204C (400F) for long periods and to 260C (500F) for short periods Room temperature cure Excellent electrical insulation properties Excellent UV, chemical and weather resistance Applications: The cure properties of these adhesive sealants make them ideally suited for applications in confined spaces. These paste-consistency silicone sealants can be used in thickness up to 6mm (1/4 in.) for bonding and sealing, joining metals and plastics, and electrical insulation. For applications requiring sealant thickness greater than 6mm (1/4 in.), GE Silicones one-component, addition cure or two component silicone rubber compounds are recommended. 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-RTV6703-One-Component-Modified-Alkoxy-Adhesive-Sealant-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	18	18	
Tensile Strength, Ultimate	1.55 MPa	225 psi	
Elongation at Break	450 %	450 %	
Tear Strength	4.90 kN/m	28.0 pli	
Peel Strength	5.78 kN/m	33.0 pli	PVC
	6.14 kN/m	35.0 pli	Glass
	6.14 kN/m	35.0 pli	Aluminum
	6.49 kN/m	37.0 pli	Lexan Polycarbonate®

Thermal Properties	Metric	English	Comments
CTE, linear	300 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0	167 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	

Thermal Properties	°C Metric	English	Comments
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² - °F	
Brittleness Temperature	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	
Dielectric Constant	2.9 @Frequency 100 Hz	2.9 @Frequency 100 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	
Dissipation Factor	0.00020 @Frequency 100 Hz	0.00020 @Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Cure Time	25.0 min	0.417 hour	Tack-free
	1440 min	24.0 hour	Through

Descriptive Properties	Value	Comments
Application rate	175 g/min	
Color	Black	
Consistency	Paste	

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