

Momentive Performance Materials RTV5818 One-Component, Modified Alkoxy Adhesive Sealant, Translucent

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

Material Notes:

RTV5810 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 fast curing paste consistency products designed for use where quick initial adhesion build is desired. This allows for movement of the sealed assemblies in a shorter period of time increasing productivity. Mechanical 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 Good confined cure properties 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-RTV5818-One-Component-Modified-Alkoxy-Adhesive-Sealant-Translucent.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	24	24	
Tensile Strength, Ultimate	2.06 MPa	299 psi	
Elongation at Break	435 %	435 %	
Tear Strength	6.96 kN/m	39.8 pli	
Peel Strength	7.01 kN/m	40.0 pli	Lexan Polycarbonate®
	7.36 kN/m	42.0 pli	Glass
	7.89 kN/m	45.0 pli	PVC
	8.24 kN/m	47.0 pli	
	8.41 kN/m	48.0 pli	Aluminum

Thermal Properties	Metric	English	Comments
	300 µm/m-°C	167 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 Â°C	English @ Temperature 68.0 Â°F	Comments
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ftÂ²- Â°F	
Brittleness Temperature	-60.0 Â°C	-76.0 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	
Dielectric Constant	2.8 @Frequency 100 Hz	2.8 @Frequency 100 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	
Dissipation Factor	0.0020 @Frequency 100 Hz	0.0020 @Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15 min	0.25 hour	Tack-free
	720 min	12.0 hour	Through

Descriptive Properties	Value	Comments
Application rate	360 g/min	
Color	Translucent	
Consistency	Paste	

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