

Momentive Performance Materials IS803 One-Component, Paste Consistency Silicone Rubber Adhesive Sealant, Black

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

Material Notes:

IS800 series one-component, ready-to-use silicone adhesive sealants have a paste-like consistency and cure to silicone rubber on exposure to atmospheric moisture at room temperature. Because these paste-consistency products will flow only with external pressure, they may be applied to horizontal, vertical, and overhead surfaces in thicknesses up to 6mm (1/4 in.). They have sufficient uncured body to adhere to small objects while cure is taking place. ISO800 Series adhesives utilize a moisture vapor cure system and release acetic acid vapors from the sealant surface as a by-product of cure. Key Performance Properties: One-component product Thixotropic (paste-like) consistency Capability to cure at room temperature and ambient humidity conditions Excellent electrical insulation properties Excellent weatherability and ozone and chemical resistance Self-adhesion properties Low temperature flexibility High temperature performance Applications: The paste-consistency of these adhesive sealants make these products ideally suited for application to vertical and overhead surfaces where use of pourable self-leveling sealants would not be practical. These sealants may be used in thicknesses up to 6mm (1/4 in.) for bonding and sealing, joining metals and plastics, and electrical insulation. These sealants are not for use in delicate electrical and electronic applications in which corrosion of copper, brass, or other sensitive metals is undesirable. All IS800 series sealants are identical materials, differing only in color. 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-IS803-One-Component-Paste-Consistency-Silicone-Rubber-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	23	23	
Tensile Strength, Ultimate	2.02 MPa	293 psi	
Elongation at Break	450 %	450 %	
Adhesive Bond Strength	1.03 MPa	150 psi	Shear, at 100% cohesive failure
Peel Strength	6.49 kN/m	37.0 pli	To anodized aluminum

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+14 ohm-cm	2.50e+14 ohm-cm	
Dielectric Constant	2.9	2.9	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	

Electrical Properties	0.0026 Metric	0.0026 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	

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

Descriptive Properties	Value	Comments
Application rate	410 g/min	
Color	Black	
Consistency	Soft, spreadable paste	

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