

Loctite® 5920™ RTV Silicone Sealant

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

Material Notes:

LOCTITE® 5920™ is a moisture-curing, non-corrosive silicone. The thixotropic nature of LOCTITE® 5920™ reduces the migration of liquid product after application to the substrate. It has been designed specially for gasketing and sealing applications where excellent temperature resistance is required. It is also used for electrical insulating applications. This product is suitable for high temperature applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Loctite-5920-RTVSilicone-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	23 - 38	23 - 38	cured 7 days, 25°C; 45-55% RH; ISO 868
Tensile Strength, Ultimate	1.41 MPa	205 psi	cured 7 days, 25°C; 45-55% RH; ISO 37
Elongation at Break	>= 350 %	>= 350 %	cured 7 days, 25°C; 45-55% RH; ISO 37
Adhesive Bond Strength	0.103 MPa	15.0 psi	Brass; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.103 MPa	15.0 psi	ABS; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.103 MPa	15.0 psi	Silicone; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.241 MPa	35.0 psi	Aluminum; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.241 MPa	35.0 psi	Mild Steel; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.241 MPa	35.0 psi	Stainless Steel; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.276 MPa	40.0 psi	Copper; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.379 MPa	55.0 psi	Zinc Plated Steel; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	0.621 MPa	90.0 psi	Aluminum (Grit Blasted); Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587

Mechanical Properties	0.655 MPa Metric	95.0 psi English	cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587 Comments
	1.00 MPa	145 psi	Phenolic; Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587
	1.28 MPa	185 psi	Steel (e-coated); Lap Shear, cured 21 days, 22°C; 50% RH; 0.5 mm gap; ISO 4587

Thermal Properties	Metric	English	Comments
CTE, linear	340 µm/m-°C	189 µin/in-°F	cured 21 days, 22°C; 45-55% RH; ISO 11359-1
Maximum Service Temperature, Air	350 °C	662 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.50e+15 ohm-cm	5.50e+15 ohm-cm	cured 21 days, 22°C; 45-55% RH; IEC 60093
Surface Resistance	2.00e+17 ohm	2.00e+17 ohm	cured 21 days, 22°C; 45-55% RH; IEC 60093

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	room temp
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	4080 min	68.0 hour	room temp
	@Thickness 5.00 mm	@Thickness 0.197 in	
	10100 min	168 hour	room temp
	@Thickness 10.5 mm	@Thickness 0.413 in	

Descriptive Properties	Value	Comments
Color	Copper	
Extrusion Rate	>275 g/min	Semco Cartridge
Gap Fill	0.24 in.	
Tack Free Time	20 - 60 min.	22°C; 45-55% RH

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