

AS1802

SILCOTHERM 1 Part RTV silicone adhesive sealant paste non corrosive

Key Features

- Excellent thermal conductivity
- Non-corrosive
- Fast skinning
- Low linear shrinkage

Revision Date : 02/11/2017

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Property	Test Method	Value
Uncured product		
Appearance		Grey paste
Cure Type		Acetone
FDA	CFR (21) 177.2600	No
Max Cure Hrs @ 25 °C		8 hrs
Rheology		Self Level
Self Bonding		Yes
Tack Free Time mins		4 mins
Viscosity A-Part mPas	Brookfield	350000 mPas
Cured product		
After 7 days cure at 23° +/-2° C and 50+/-5% humidity		
CTE Linear ppm/°C		164 ppm/°C
CTE Volumetric ppm/°C		493 ppm/°C
Colour		Grey
Duro Shore A	ASTM D 2240-95	67
Elongation %	ISO 37	103 %
Linear Shrinkage %		0.5 %
Max Working Temp +°C	AFS_1540B	220 °C
Min Working Temp - °C		-50 °C
SG	BS ISO 2781	2.11
Tensile MPa	ISO 37	3.9 MPa
Thermal Conductivity W/mK		2.3 W/mK
UL 94V-0		No
Storage		
Max storage temperature °C		40 °C
Shelf life		12 mths
Electrical properties		
Dielectric Constant @ 1kHz	ASTM D-150	3.85
Dielectric Strength kV/mm	ASTM D-149	20 kV/mm
Dissipation Factor @ 1kHz	ASTM D-150	0.002
Volume Resistivity ohms cm	ASTM D-257	1E+14 ohms cm
Adhesion testing		
Lap Shear Aluminium kg/cm ²	ASTM D1002	7.15 kg/cm ²
Lap Shear Copper kg/cm ²	ASTM D1002	3.6 kg/cm ²
Lap Shear Stainless Steel 304 kg/cm ²	ASTM D1002	2.98 kg/cm ²

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