

# AS1701

## 1 Part RTV silicone adhesive sealant paste non corrosive

### Key Features

- Fast skinning
- Non-corrosive
- Excellent adhesion to most substrates
- 

Revision Date : 16/09/2019

Download Date : 24/03/2020

Property	Test Method	Value
<b>Uncured product</b>		
Appearance		<b>Black paste</b>
Cure Type		<b>Alkoxy</b>
Extrusion Rate g/min		<b>260 g/min</b>
FDA	CFR (21) 177.2600	<b>No</b>
Max Cure Hrs @ 25 °C		<b>24 hrs</b>
Rheology		<b>Paste</b>
Self Bonding		<b>Yes</b>
Tack Free Time mins		<b>3 mins</b>
<b>Cured product</b>		
<b>After 7 days cure at 23° +/-2° C and 50+/-5% humidity</b>		
CTE Linear ppm/°C		<b>230 ppm/°C</b>
CTE Volumetric ppm/°C		<b>690 ppm/°C</b>
Colour		<b>Black</b>
Duro Shore A	ASTM D 2240-95	<b>52</b>
Elongation %	ISO 37	<b>200 %</b>
Linear Shrinkage %		<b>1 %</b>
Max Working Temp +°C	AFS_1540B	<b>220 °C</b>
Min Working Temp - °C		<b>-50 °C</b>
Modulus @ 100% Strain MPa		<b>2.1 MPa</b>
Modulus Youngs MPa		<b>1.8 MPa</b>
SG	BS ISO 2781	<b>1.28</b>
Tear kN/m	BS ISO 34-1	<b>19.1 kN/m</b>
Tensile MPa	ISO 37	<b>2.35 MPa</b>
Thermal Conductivity W/mK		<b>0.6 W/mK</b>
UL 94V-0		<b>No</b>
<b>Storage</b>		
Max storage temperature °C		<b>40 °C</b>
Shelf life		<b>12 mths</b>
<b>Electrical properties</b>		
Dielectric Breakdown Voltage kV		<b>33.33 kV</b>
Dielectric Constant @ 1kHz	ASTM D-150	<b>2.92</b>
Dielectric Strength kV/mm	ASTM D-149	<b>&gt;18 kV/mm</b>
Dissipation Factor @ 1kHz	ASTM D-150	<b>0.0012</b>
Surface Resistivity ohms	ASTM D-257	<b>3.8E+16 ohms</b>
Volume Resistivity ohms cm	ASTM D-257	<b>7.85E+15 ohms cm</b>
<b>Adhesion testing</b>		
Lap Shear Aluminium kg/cm <sup>2</sup>	ASTM D1002	<b>10.78 kg/cm<sup>2</sup></b>
Lap Shear Copper kg/cm <sup>2</sup>	ASTM D1002	<b>10.06 kg/cm<sup>2</sup></b>
Lap Shear Polycarbonate Steel kg/cm <sup>2</sup>	ASTM D1002	<b>5.93 kg/cm<sup>2</sup></b>
Lap Shear Stainless Steel 304 kg/cm <sup>2</sup>	ASTM D1002	<b>9.29 kg/cm<sup>2</sup></b>

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as warranty or representation. Users should make their own test to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the user of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed. All values are typical and should not be accepted as a specification