1084G is a non-corrosive, 1-part, room temperature vulcanising (RTV) silicone rubber. It is one of a new family of products called acetone cure sealants that are solvent free. It exhibits excellent primerless adhesion to many substrates. The product is cured rapidly in contact with atmospheric moisture to a tough rubber. It does not corrode copper or its alloys and exhibits excellent primerless adhesion when fully cured.

Key Features:

Excellent thermal conductivity Non corrosive Fast skinning Low linear shrinkage

How to Use:

RTV1084G is ready for use. If supplied in cartridges it can be applied using either manual or pneumatic dispensers. It can also be applied from bulk containers using conventional drum dispensing equipment.

Application and Cure:

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required. If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 15 to 20 seconds. For optimum bond strength the thickness of the sealant joint is 1 to 2mm. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

Packages:

75 ml and 310 ml cartridges. Arrangements can be made to supply in bulk containers.

Storage and Shelf Life:

Expected to be 12 months in cartridges and 9 months in bulk, unopened containers.

Property	Test Method	Value
Uncured Product		
Colour:		Grey
Appearance:		Grey paste
Tack Free Time:		4 minutes *
3mm Cure Through:		<8 hours *
Extrusion Rate:		g / minute
Viscosity:		350000 mPas
Measured at 23+/-2°C and 65% relative humidity.		

Cured Elastomer

Tensile Strength: BS903 Part A2 3.90 MPa Elongation at Break: BS903 Part A2 103 %

Youngs Modulus:

Modulus at 100% Strain: BS903 Part A2 MPa Tear Strength: BS903 Part A3 kN/m Hardness: ASTM D 2240-95 67° Shore A Specific Gravity: BS 903 Part A1 2.11

Linear Shrinkage: 0.5%

Thermal Conductivity: 2.30W/mK

Coefficient of Thermal Expansion:

493 ppm / °C Volumetric: 164 ppm / °C Linear: -50°C Min. Service Temperature:

Max. Service Temperature: AFS 1540B 220 °C

Electrical Properties

Volume Resistivity: ASTM D-257 $1E+14\Omega.cm$

Surface Resistivity: ASTM D-257 20kV/mmDielectric Strength: ASTM D-149 4.90 Dielectric Constant at 1MHz: ASTM D-150 0.9E-3Dissipation Factor at 1MHz: ASTM D-150

Adhesion Testing

Overlap Shear Strength: **ASTM D 1002** kg/cm2 Copper 3.60 Aluminium 7.15 2.98 Stainless Steel 304

Polycarbonate

Customers are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved. Stress cracking can appear on some grades of polycarbonate. Customers are advised to carry out initial testing to ensure product compatibility.

All values are typical and should not be accepted as a specification.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

ReinhardOil.dk ApS * Helleruplund Alle 8 * 2900 Hellerup Telefon +45 70267007