

# Techsil RTV1084G

Silicone  
Techsil Limited

Message:

RTV1084G 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.

These products are cured rapidly in contact with atmospheric moisture to a tough rubber that exhibits an excellent thermal conductive property of ~2.3 W/m K.

RTV1084G does not corrode copper or its alloys and exhibits excellent primerless adhesion to many substrates when fully cured.

Key Features:

- Non-corrosive
- Excellent adhesion
- Good spreading and tooling properties
- Low linear shrinkage
- Fast skinning
- Cure through 2 to 3mm in <24 hours
- Adhesion to most substrates improves with age until most are cohesive

General Information			
Features	Good Adhesion		
	Low Shrinkage		
	Non-Corrosive		
	Thermally Conductive		
	Vulcanizable		
Uses	Sealants		
Appearance	Grey		
Forms	Paste		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.11	g/cm <sup>3</sup>	BS 903
Molding Shrinkage - Flow	0.50	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Shear Strength			ASTM D1002
-- <sup>1</sup>	2.98	MPa	
-- <sup>2</sup>	0.701	MPa	
-- <sup>3</sup>	0.353	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>4</sup> (Yield)	3.90	MPa	BS 903
Tensile Elongation <sup>5</sup> (Break)	100	%	BS 903
Thermal	Nominal Value	Unit	
CLTE			
Flow	1.6E-4	cm/cm/°C	

Transverse	4.9E-4	cm/cm/°C	
Thermal Conductivity	2.3	W/m/K	
Service Temperature <sup>6</sup>	-50 to 220	°C	
Tack Free Time <sup>7</sup> (23°C)	4.0	min	
Cure Time <sup>8</sup> (23°C, 3.00 mm)	< 8.0	hr	
Extrusion Rate	390	g/min	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	> 20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.90		ASTM D150
Dissipation Factor (1 MHz)	9.0E-4		ASTM D150
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity <sup>9</sup>	35000	cP	
NOTE			
1.	Stainless Steel 304		
2.	Aluminum		
3.	Copper		
4.	after 7 days cure at 23+/-2°C and 65% relative humidity		
5.	after 7 days cure at 23+/-2°C and 65% relative humidity		
6.	AFS 1540B		
7.	65%RH		
8.	65%RH		
9.	Brookfield		

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