

Techsil® TIM11123 (GB)

Silicone Rubber, RTV-1

Techsil Limited

Message:

Techsil TIM11123 (GB) Grey is a 200 micron, self-gapping, 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.

TIM11123 (GB) does not corrode copper or its alloys and exhibits excellent primerless adhesion to many substrates when fully cured. It has been designed to be flowable and contains glass beads to control bond line thickness.

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

200 micron self-gapping

General Information			
Filler / Reinforcement	Glass beads		
Features	Heat conduction		
	Fast curing		
	Good adhesion		
	Good toughness		
	Room temperature vulcanization		
	Low shrinkage		
	Non-corrosive		
Uses	Sealant		
	Adhesive		
Appearance	Grey		
Forms	Adhesive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.11	g/cm ³	BS 903
Molding Shrinkage - Flow	0.50	%	
Thermal	Nominal Value	Unit	
CLTE - Flow	1.6E-4	cm/cm/°C	
Thermal Conductivity	2.3	W/m/K	
Service Temperature ¹	-50 - 220	°C	
Volumetric Expansion	4.9E-4	cm/cm/°C	
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
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity (Brookfield RVT)	350	Pa·s	
Curing Time (23°C)	< 8.0	hr	
Tack Free Time (23°C, 65% RH)	4.0	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	67		ASTM D2240
Tensile Strength	3.90	MPa	BS 903
Tensile Elongation at Break	100	%	BS 903
NOTE			

1. AFS 1540B

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