

# Techsil RTV12

Silicone  
Techsil Limited

Message:

TECHSIL RTV12 is a 2-component room temperature vulcanising silicone rubber system that is employed as an encapsulant for sensitive electrical and electronic assemblies. It is cured by the addition of A and B/C parts to produce a moderately hard silicone rubber, which offers good protection against chemicals and environmental contamination, shock and vibration. The component parts have relatively low viscosities and are readily mixed in a simple 20:1 ratio.

- Key Features:
- Optically clear or blue is available
  - Self Bonding
  - Low Viscosity
  - Good deep cure section

Applications:  
TECHSIL RTV12 is recommended for potting, embedding and encapsulating delicate electrical and electronic equipment; sealing and caulking.

General Information		
Features	Bondability	
	Good Adhesion	
	Good Chemical Resistance	
	Low Viscosity	
	Shock Resistant	
	Vulcanizable	
Uses	Electrical/Electronic Applications	
	Seals	
Appearance	Clear - Blue Tint	
Forms	Liquid	
Processing Method	Embedment/Embedding	
	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Specific Gravity	0.990	g/cm <sup>3</sup>
Molding Shrinkage - Flow	1.0	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	19	
Thermal	Nominal Value	Unit
CLTE		
Flow	3.0E-4	cm/cm/°C
Transverse	9.0E-4	cm/cm/°C
Thermal Conductivity	0.18	W/m/K

Service Temperature	-50 to 220	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	> 17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Thermoset	Nominal Value	Unit	
Pot Life <sup>1</sup> (23°C)	120	min	
Thermoset Mix Viscosity			
-- <sup>2</sup>	1100	cP	
-- <sup>3</sup>	15.0	cP	
-- <sup>4</sup>	1400	cP	
NOTE			
1.	65%RH		
2.	Catalysed		
3.	Part B/C		
4.	Part A		

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