

# Techsil® RTV12120

Silicone Rubber, RTV-1

Techsil Limited

## Message:

Techsil RTV12120 is a one-component, fast cure, non-corrosive silicone adhesive sealant that cures on exposure to atmospheric moisture to form an elastic silicone rubber. RTV12120 has excellent corrosion-free adhesion to metals, including copper, plastics, ceramics, glass, etc. without the use of primers.

### Key Features and Benefits

Non-corrosive to metals: meets MIL-A-46146B corrosion test

Fast cure

Low odour; releases an alcohol vapour during cure

Primerless adhesion to many substrates

Excellent high and low temperature resistance: from -55°C to 200°C

Excellent weatherability, ozone, and chemical resistance

Excellent electrical insulation properties

UL94 HB recognized (File No: E56745)

Simple and easy-to-use one-component system

General Information		
Features	Insulation	
	Fast curing	
	Good adhesion	
	Ozone resistance	
	Low temperature resistance	
	Good chemical resistance	
	Good weather resistance	
	Heat resistance, high	
	The smell is low to none	
	Room temperature vulcanization	
	Non-corrosive	
	Uses	Electrical/Electronic Applications
Sealant		
Adhesive		
Agency Ratings	MIL A-46146B	
UL File Number	E56745	
Appearance	Clear/transparent	
Forms	Adhesive	
Physical	Nominal Value	Unit
Density (23°C)	1.04	g/cm³
Thermal	Nominal Value	Unit
Thermal Conductivity	0.18	W/m/K
Additional Information	Nominal Value	Unit

Adhesion Strength	1.00	MPa
Uncured Properties	Nominal Value	Unit
Viscosity (23°C)	50	Pa·s
Tack Free Time	10	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	13	
Tensile Strength	1.20	MPa
Tensile Elongation at Break	360	%
Electric strength	22	kV/mm
Relative Permittivity (60 Hz)	2.90	
Volume Resistivity	2.0E+15	ohms·cm
Dissipation Factor (60 Hz)	5.0E-3	

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