

# Techsil® RTV27909

Silicone Rubber, RTV-2

Techsil Limited

## Message:

Techsil RTV27909 is a kit matched easily pourable, solvent free, clear and colourless two-component silicone gel. After mixing the A and the B part at a mix ratio of 1: 1 the material cures very fast at room temperature by an addition reaction to a tacky silicone gel with excellent vibration dampening properties.

### Properties:

- Convenient 1:1 mixing by weight
- Low viscosity, free of solvents
- Fast room temperature cure
- Soft, tacky gel, sticking to many substrates
- Mechanical shock and vibration damping properties
- Useful temperature range -50°C to 150°C

### Applications:

Techsil RTV27909 is specially developed for electronic potting applications such as hybrid IC insulation, potting of power modules and sensors when fast cure at room temperature is required.

General Information		
Features	Low viscosity	
	Shock absorption	
	Earthquake resistance	
	Fast curing	
	Soft	
	Room temperature vulcanization	
Uses	Electrical/Electronic Applications	
Appearance	Clear/transparent	
Forms	Gel	
Processing Method	potting	
Physical	Nominal Value	Unit
Density	0.980	g/cm <sup>3</sup>
Thermal	Nominal Value	Unit
CLTE - Flow	3.0E-4	cm/cm/°C
Thermal Conductivity	0.17	W/m/K
Service Temperature	-50 - 150	°C
Electrical	Nominal Value	Unit
Comparative Tracking Index	> 600	V
Optical	Nominal Value	
Refractive Index	1.410	
Uncured Properties	Nominal Value	Unit
Color		
-- 1	Clear/Transparent	
-- 2	Clear/Transparent	

Mix Ratio by Weight (PBW)		
Part A	1.0	
Part B	1.0	
Density		
-- <sup>3</sup>	0.980	g/cm <sup>3</sup>
-- <sup>4</sup>	0.980	g/cm <sup>3</sup>
Viscosity		
-- <sup>5</sup>	1.0	Pa·s
-- <sup>6</sup>	1.0	Pa·s
-- <sup>7</sup>	1.0	Pa·s
Pot Life (23°C)	30	min
Cured Properties	Nominal Value	Unit
Electric strength	20	kV/mm
Relative Permittivity (60 Hz)	2.80	
Volume Resistivity	2.0E+15	ohms·cm
Dissipation Factor (60 Hz)	1.0E-3	
NOTE		
1.	Part A	
2.	Part B	
3.	Part A	
4.	Part B	
5.	Part A	
6.	Part B	
7.	Mixed	

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