

TECHSIL[®] RTV27909 FAST GEL

Techsil[®] RTV27909 Fast Gel 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.

Key Features

- 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

Typical Physical Properties

Property	Unit	Value	
Uncured Product		RTV27909 (A)	RTV27909 (B)
Colour		Clear, colourless	Clear, colourless
Consistency		Easily pourable	Easily pourable
Viscosity	mPas	1000	1000
Specific gravity	g/cm ³	0.98	0.98
Uncured / Mixed properties		RTV27909	
Mix ratio		1:1	
Colour		Clear, colourless	
Consistency		Easily pourable	
Viscosity	mPas	1000	
Work time at 23 °C	Minutes	30	
Cured properties (Cured 1 hr at 100 °C)			
Mechanical			
Penetration, 1/4 cone (9.4g), 1/10mm		85	
Density	g/cm ³	0.98	
Refractive Index		1.41	
Electrical			
Dielectric Strength	kV/mm	20	
Dielectric Constant (60 Hz)		2.8	
Dissipation Factor (60 Hz)		0.001	
Volume Resistivity	$\Omega \cdot \text{cm}$	2.0×10^{15}	
Tracking Resistance	CTI	>600	
Thermal			
Useful temp. range	°C	-50 to 150	
Thermal conductivity	W/m . K	0.17	
Coefficient of Linear Expansion	1/ K	30×10^{-5}	

* Typical physical properties are average data and should not be used as or to develop product specifications.

Potential Applications

Techsil[®] RTV27909 Fast Gel 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.

Contact Details

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Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Techsil Ltd maintains an around-the-clock emergency service for its products. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available upon request.

Use of other materials in conjunction with Techsil Ltd (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such **information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated.** However, no warranty guarantee or **representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.**

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