



SILGEL-E65

Soft Silicone Gel for Electronic Potting Applications



Product Description

SILGEL-E65 is a two part addition cure type Silicone Gel used for Electrical and Electronic potting application. The two low viscosity liquid silicone components when mixed together cure to form very soft, gel-like elastomer. This product has been specifically developed for easy mix ratio of 1:1 of two components (Part A and Part B). These gels are stable over a wide temperature range. The adhesion of these gels to various substrates makes them suitable for various applications in electrical/electronic industry.

Applications

- Power supplies
- Transformers
- Sensors
- Connectors
- Relays
- Transformers
- Loadcells

Key Performance Properties

- Low viscosity – Free of solvents - Easy for mixing manually or in an automated mix-meter equipment
- Room Temperature/heat Cure with easy Mix Ratio of 1:1
- Excellent Thermal oxidation resistance
- Excellent Dielectric properties
- Low volatility and low shrinkage
- Chemically inert
- Optical clarity allows easy visual inspections
- Self-healing behaviour
- Outstanding mechanical and thermal stress protection
- Vibration dampening
- Primer-less adhesion- tacky to many substrates/surfaces

Typical Data

Typical product data values should not be used as specifications.

Property	Unit	Value
Colour		Part A : Transparent Part B: Blue
Viscosity at 25°C	mPa.s Brookfield Spindle:2 Speed : 30 rpm	A Part : 500 B Part : 500
Mix Ratio		A:B = 1:1
Density at 25°C	g.cm ⁻³	0.98
Working time (pot life) at 25°C	Min	20-30
Cure Time at 25°C	Min	2-3 hours
Thermal Conductivity	W/mK	0.19
Coefficient of Thermal expansion	cm/cm °C	27X10 ⁵
Flash point	°C	> 290
Pour point	°C	-50
Refractive Index at 25°C	n ^d 25	1.40
Water Content	ppm	< 100
Gel Hardness	Grams	115-120

Storage and Transport

The warranty period is 9 months from date of shipment if stored in the original unopened container at ambient temperature of less than 27°C

The Silicone Gel described in this brochure will provide a mechanical bond, which has proven adequate for most uses. However, they require a primer to obtain a chemical bond to various substrates. For a chemical bond, if primers are needed, please contact us

SILGEL-E65 is a product manufactured in INDIA by **Performance Polymers**, B-88, 3rd Cross 3rd Main, Opp. ESI Sub-Regional Office, DDUTT, Industrial Suburb, 2nd Stage, Yeshwantpur, Bangalore 560 022,
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Limited Warranty : The information mentioned in this data sheet is a description of the product to the best of our knowledge. Recommendations for use do not constitute a warranty of the fitness for a particular use. It is the user's responsibility to thoroughly test the product in a particular application to determine its performance and safety.