TECHNICAL DATA SHEET

TE–30 | Custom RTV–2 Silicone for Cable Accessories

Customer–qualified, translucent, fast–setting two–part addition–cure silicone for cable joint filling and electrical sealing.

PRODUCT PROFILE	DETAIL
Product code	TE–30	cable–accessory custom formulation
Material type	Two–component RTV–2 addition–cure silicone rubber; cures to a flexible elastomer
Appearance	Translucent, pourable viscous liquid
Mix ratio	Part A : Part B = 1 : 1 by weight
Key processing window	Working time approx. 8—9 min at 23°C; setting time <15 min at 23°C
Cured hardness	Approx. 28 Shore A, measured after 24 h

1. Product Description & Recommended Uses

TE–30 is a customer–qualified, two–part, fast–setting RTV–2 silicone formulation developed for filling and sealing selected cable joint assemblies and electrical accessories. The material offers pourable processing followed by formation of a flexible elastomeric seal. Performance in a given cable joint, junction box or other enclosure depends on the assembly design, substrates, processing conditions and qualification testing.

Recommended application scope: electrical insulation and sealing, cable joint filling, selected cable accessory encapsulation. Re–entry or reuse behavior, when required, must be confirmed for the final assembly and service procedure.



2. Typical Physical & Processing Properties

Characteristics	Unit	Control Standard
Appearance	Part A	Translucent
	Part B	Translucent/ DARK GREY
Mixed viscosity	Approx. 4,500—6,000 mPa·s	Mixed A+B; 23°C
Working time	Approx. 8—9 min	23°C
Setting time	<15 min	23°C; end-point definition to follow approved test method
Cure response	Faster setting at higher temperature; slower at lower temperature	Temperature dependence reported
Hardness	Approx. 28 Shore A	After 24 h
Density	Approx. 1.24g/cm³	GB/T2794-1995
Tensile strength	Approx. 5.2 MPa	GB/T 528
Elongation at break	Approx. 600%	GB/T 528
Tear resistance	Approx. 18 N/mm	GB/T 528
Thermal conductivity	Approx. 0.2 W/(m·K)	/

3. Electrical & Temperature Characteristics

PROPERTY	REPORTED VALUE
Dielectric strength	>20 kV/mm
Dielectric constant / permittivity	<5
Power factor / tan δ	$<5 \times 10^{-3}$
Installation temperature	—5°C to +45°C
Continuous working temperature	—60°C to +200°C

Reported electrical values are shown as supplied for the customer-qualified formulation; underlying test conditions and supporting records should be consulted where required.

4. Ingress Protection & Application Qualification

- TE-30 is suitable for cable joints and electrical sealing applications requiring IP68 ingress protection. When properly mixed, cured and applied in a compatible enclosure, TE-30 can support an IP68-rated sealing system.
- IP68 performance is evaluated on the complete cable joint or enclosure in accordance with IEC/EN 60529. Final sealing performance depends on enclosure design, cable entry interfaces and installation conditions.

5. Recommended Processing & Cure-Inhibition Checks

- Condition the material and application components to the approved processing temperature. Confirm that cable insulation, housing and connectors are clean and dry.
- Weigh Part A and Part B accurately at 1:1 by weight; mix thoroughly until uniform. Do not change the ratio to adjust curing or softness.
- Account for the short working time (approx. 8—9 min at 23°C). Plan mixing, dispensing and filling before the batch is prepared.
- Where trapped air could compromise filling or sealing, evaluate vacuum degassing or an appropriate controlled filling procedure.
- Platinum–cure systems may be inhibited by certain sulfur–, tin– or amine–containing residues, uncured compounds or additives. Perform a small cure–compatibility check with actual substrates before production.
- Do not apply an acrylic coating, primer or other surface treatment to resolve cure inhibition unless it has been separately qualified for the electrical assembly.

6. Available Packaging

COMPONENT	PACKAGE OPTIONS
Part A	1 kg / tin | 5 kg / tin | 20 kg / drum | 25 kg / drum | 200 kg / drum
Part B	1 kg / tin | 5 kg / tin | 20 kg / drum | 25 kg / drum | 200 kg / drum



7. Documents, Safety & Important Notes

Use the corresponding Safety Data Sheet (SDS) before handling. REACH/SVHC–related declarations and other documents should be provided only where available and applicable to the supplied formulation. Application performance, service life and compliance claims require the relevant grade–specific documentation and final–assembly qualification.