TE-30 RTV-2 Silicone Rubber

Translucent, pourable, fast-curing 1:1 silicone rubber for general moldmaking and electrical sealing applications

Product Code	TE-30	**Product Type**	2-component RTV-2 addition-cure silicone rubber
Mixing Ratio	1A : 1B by weight	**Appearance**	Translucent viscous liquid
Target Hardness	Approx. 28 Shore A	**Working Time**	Approx. 8-9 min at 23°C

Description & Suggested Applications

TE-30 is a translucent, pourable, fast-curing RTV-2 silicone rubber. It is intended for technical evaluation in general moldmaking, electrical insulation, sealing, cable joint filling, encapsulation / potting-type protection, and re-enterable protection in suitable final assemblies. The material cures without exothermic reaction.

Typical Properties

Property	Test / Condition	Typical Value
Aspect	-	Viscous liquid
Colour	-	Translucent
Viscosity at 23°C	On mixed product	Approx. 4,500-6,000 mPa·s
Working time	At 23°C	Approx. 8-9 minutes
Setting time	At 23°C	Approx. <15 minutes
Curing behavior	Temperature dependence	Higher temperature shortens setting time; lower temperature extends setting time
Exothermic temperature	-	Non-exothermic reaction
Hardness	Shore A after 24 h	Approx. 28 Shore A
Density	-	Approx. 1.24 g/cm³
Tensile strength	-	Approx. 2.9 MPa
Elongation at break	-	Approx. 350%
Tear resistance	-	Approx. 8 N/mm
Thermal conductivity	-	Approx. 0.2 W/m·K
Installation temperature	-	-5 to +45°C
Continuous working temperature	-	-60 to +200°C
Flammability point	-	>200°C
Auto-ignition temperature	-	>400°C

Electrical Properties

Property	Test / Condition	Typical Value
Dielectric strength	-	>20 kV/mm
Dielectric constant / Permittivity	-	<5
Power factor – tan δ	-	$<5 \times 10^{-3}$
Volume resistivity	-	$>2 \times 10^{15}$ Ω·cm
Degree of protection	EN 60529	IP68 in proper casings / final assembly*

**IP68 is a system-level protection result and depends on final casing design, sealing structure, tape bonding and assembly process. Final IP performance should be validated on Raytech's finished assembly.*

Processing & Compliance Notes

Mix Part A and Part B at 1:1 by weight until uniform. Degassing is recommended where trapped air must be minimized. Avoid contact with sulfur-containing rubber, tin-catalyzed silicone residues, amine-cured epoxy systems and certain PVC additives. TDS, SDS, and REACH SVHC-related declarations can be provided for review when available. This preliminary document is prepared for sample evaluation and parameter matching only; final QC data and compliance documents should be confirmed before bulk production or commercial use.