

TWO-PART RTV SILICONE POTTING & ENCAPSULATING COMPOUNDS ADDITION CURE

GENERAL PURPOSE

Product	RTV615	RTV627	RTV630	RTV6428	TSE3033	RTV656*	TSE3331**
Color	Clear	Dark Gray	Blue	Dark Gray	Clear	Clear	Dark Gray
Mix Ratio	10 : 1	1 : 1	10 : 1	1 : 1	1 : 1	10 : 1	1 : 1
Viscosity, cps (@ 25°C/77°F)	4,000	1,270	150,000	1,300	1,000	4,000	3,500
Specific Gravity	1.02	1.37	1.28	1.37	1.01	1.02	1.51
Refractive Index	1.406	---	---	---	1.406	1.406	---
Hardness Shore A	44	62	60	62	30	44	60
Tensile Strength MPa, (psi)	6.37 (920)	3.24 (475)	5.69 (820)	3.24 (475)	0.98 (142)	6.37 (920)	3.24 (475)
Elongation %	160	60	250	60	130	160	50
Tear Resistance kg/cm (lb/in)	—	3.4 (19)	20 (110)	3.4 (19)	—	—	3.4 (19)
Useful Temp. Range °C (°F)	-60 to +204 (-75 to +400)	-60 to +204 (-75 to +400)	-60 to +204 (-75 to +400)	-60 to +204 (-75 to +400)	-60 to +204 (-75 to +400)	-115 to +204 (-175 to +400)	-60 to +204 (-75 to +400)
Thermal Conductivity W/m°K	0.19	0.31	0.31	0.31	0.17	0.19	0.63
Coefficient of Thermal Expansion, cm/cm°C (in/in °F)	27 x10 ⁻⁵ (15.3 x 10 ⁻⁵)	21 x10 ⁻⁵ (11.4 x 10 ⁻⁵)	21 x10 ⁻⁵ (11.4 x 10 ⁻⁵)	21 x10 ⁻⁵ (11.4 x 10 ⁻⁵)	23 x10 ⁻⁵ (12.5 x 10 ⁻⁵)	27 x10 ⁻⁵ (15.3 x 10 ⁻⁵)	17 x10 ⁻⁵ (9.2 x 10 ⁻⁵)
Dielectric Strength kV/mm (V/mil)	19.7 (500)	20.1 (510)	17.7 (450)	21 (530)	21 (530)	19.7 (500)	20 (500)
Dielectric Constant	2.89	2.97	3.2	3.0	2.8	2.89	3.3
Dissipation Factor	0.0004	0.006	0.006	0.0061	0.001	0.0004	0.003
Volume Resistivity, ohm-cm	1.8 x 10 ¹⁵	5.7 x 10 ¹⁴	4.5 x 10 ¹⁵	5.7 x 10 ¹⁴	2 x 10 ¹⁵	3.2 x 10 ¹⁵	2 x 10 ¹⁴

* Extreme Low Temperature

** Thermally Conductive