

EXTREME HIGH TEMPERATURE
EXTREME LOW TEMPERATURE

Product	RTV31	RTV60	RTV88	RTV560	RTV866	RTV511	RTV567	RTV577
Color	Red	Red	Red	Red	Red	White	Translucent	White
Mix Ratio	100 : 0.5	100 : 0.5	100 : 0.5	100 : 0.5	100 : 0.1	100 : 0.5	100 : 0.1	100 : 0.5
Viscosity, cps	25,000	47,000	880,000	30,000	42,700	16,000	3,900	700,000
Specific Gravity	1.42	1.48	1.47	1.42	1.49	1.21	1.00	1.35
Hardness Shore A	54	57	58	55	61	42	20	48
Tensile Strength MPa (psi)	5.98 (870)	6.86 (990)	5.79 (830)	4.71 (690)	5.49 (800)	2.65 (380)	—	3.04 (440)
Elongation %	170	120	120	120	120	170	—	150
Tear Resistance kg/cm (lb/in)	5 (29)	7 (40)	8 (42)	5.5 (31)	—	3.8 (21)	—	6.8 (38)
Linear Shrinkage %	0.6	0.6	0.6	1.0	0.6	1.3	0.6	0.65
Useful Temp. Range °C (°F)	-54 to +260 (-65 to +500)	-54 to +260 (-65 to +500)	-54 to +260 (-65 to +500)	-115 to +260 (-175 to +500)	-115 to +260 (-175 to +500)	-115 to +204 (-175 to +400)	-115 to +204 (-175 to +400)	-115 to +204 (-175 to +400)
Thermal Conductivity W/m°K	0.31	0.31	0.31	0.31	0.31	0.26	0.29	0.31
Coefficient of Thermal Expansion cm/cm °C (in/in °F)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)	22 x 10 ⁻⁵ (12 x 10 ⁻⁵)	25 x 10 ⁻⁵ (14 x 10 ⁻⁵)	20 x 10 ⁻⁵ (11 x 10 ⁻⁵)
Dielectric Strength kV/mm (V/mil)	17 (430)	17.7 (450)	17.4 (440)	21.2 (540)	21.2 (540)	20.5 (520)	20.3 (515)	18.5 (470)
Dielectric Constant	4.4	4.0	4.3	3.9	3.9	3.6	3.3	3.98

(1 kHz)								
Dissipation Factor (1kHz)	0.03	0.02	0.03	0.02	0.02	0.005	0.006	3.98
Volume Resistivity ohm-cm	1.6×10^{14}	4.4×10^{14}	2.8×10^{14}	2×10^{14}	2×10^{14}	2×10^{14}	1.1×10^{14}	5.6×10^{14}