

RTV2 Silicone Rubber XTX45



RTV2 silicone rubber XTX45 is a bicomponent (catalyst and base) addition RTV silicone rubber that, when mixed together in a 10:1 ratio, vulcanizes at room temperature. Due to its high transparency, it is ideal for transparent molding applications, rapid prototyping and concrete molding.

Once vulcanized, RTV2 silicone rubber XTX45 is:

- Highly resistant to the aggressive components of some types of resin.
- Extremely durable (due to its high tear strength).
- Excellent for accurate reproduction of very small details.
- Dimensionally stable over time.
- Remarkably resistant to high temperatures and aging.

Typical Material Properties*

	RTV2 Silicone Rubber XTX45	RTV2 Silicone Rubber XTX45 Oil Bleeding
Mixing Ratio (Part A:Part B)	10:1	10:1
Viscosity Catalyst (Part A)	70,000 cPs	45,000-65,000 cPs
Viscosity Base (Part B)	90 cPs	1,800-2,400 cPs
Viscosity of Pre-Catalyzed Mixture	Approximately 35,000 cPs	Approximately 55,000 cPs
Density	1.12 g/cc	Part A (catalyst): 1.09 g/cc Part B (base): 0.98 g/cc
Working Time at 73 °F (23 °C)	Approximately 90 minutes	70-90 minutes
Setting Time at 73 °F (23 °C)	15 hours	Approximately 9 hours
Shore A Hardness After 24 Hours	43 ± 3 ShA	40 ± 3 ShA
Tensile Strength	6.57 ± 0.5 N/mm ² (953 psi)	>5.5 N/mm ² (797 psi)
Elongation at Break	400 ± 20%	330 ± 20%
Tear Strength	>20 N/mm (>2900 psi)	>16 N/mm (>2320 psi)
Color	Part A (catalyst): Transparent Part B (base): Translucent	Part A (catalyst): Transparent Part B (base): Translucent

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

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PRODUCT DATA SHEET



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