

RTV-2 P-45

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-45 is a low viscosity, high tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed for casting polyurethane parts. It is easy to mix and de-air, and will cure with virtually no shrinkage. The speed at which the rubber hardens can be dramatically accelerated with heat or with Pt Accelerator at room temperature. Addition-cure two-component silicone rubbers exhibit excellent chemical and heat resistance, but may show some inhibition sensitivity. P-45 is extremely useful for large architectural applications where superior mechanical properties are required.

| General Information | | | |
|--------------------------------------|--------------------------|-------|-------------|
| Features | Good Chemical Resistance | | |
| | Good Tear Strength | | |
| | High Heat Resistance | | |
| | Low Shrinkage | | |
| | Low Viscosity | | |
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | 1.12 | g/cm³ | |
| Thermal | Nominal Value | Unit | |
| Service Temperature - Cured | -51 to 316 | °C | |
| Coverage - Cured | 0.900 | cm³/g | |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| | Mix Ratio by Weight: 1.0 | | |
| | | | |
| Hardener | Mix Ratio by Volume: 11 | | |
| | Mix Ratio by Volume: 10 | | |
| | | | |
| Resin | Mix Ratio by Volume: 100 | | |
| Shelf Life | 26 | wk | |
| Thermoset Mix Viscosity ¹ | 40000 to 50000 | cP | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Color | | | |
| -- ² | Brown | | |
| -- ³ | Off White | | |
| Viscosity | | | |
| -- ⁴ | 1.0 to 2.0 | Pa·s | |

| -- ⁵ | 55 to 75 | Pa·s | |
|-----------------------------|---------------------------|------|-------------|
| Curing Time | 16 to 24 | hr | |
| Pot Life | 45 to 90 | min | |
| Cured Properties | Nominal Value | Unit | Test Method |
| Shore Hardness | | | |
| Shore A ⁶ | 40 to 48 | | |
| Shore A ⁷ | 41 to 49 | | |
| Tensile Strength | 5.17 to 5.86 | MPa | ASTM D412 |
| Tensile Elongation at Break | 230 to 330 | % | ASTM D412 |
| Tear Strength | 25.4 to 30.6 | kN/m | ASTM D624 |
| NOTE | | | |
| 1. | Mixed | | |
| 2. | Reddish-Brown - Activator | | |
| 3. | Base | | |
| 4. | Activator | | |
| 5. | Base | | |
| 6. | 1 Day | | |
| 7. | 7 Days | | |

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