

RTV-2 P-44

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-44 is a translucent, medium viscosity, high tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed for casting parts where visual inspection is required. 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-44 is supplied with 2 Activators: P-44A (1) is used for production molds, while P-44A (2) is used for casting clear parts. P-44 is extremely useful for prototype applications where superior mechanical properties are required.

| General Information | | | |
|--------------------------------------|--------------------------|--------------------|-------------|
| Features | Good Chemical Resistance | | |
| | Good Tear Strength | | |
| | High Heat Resistance | | |
| | Low Shrinkage | | |
| | Medium Viscosity | | |
| Uses | Mold Making | | |
| | Molds/Dies/Tools | | |
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | 1.09 | g/cm ³ | |
| Thermal | Nominal Value | Unit | |
| Service Temperature - Cured | -51 to 316 | °C | |
| Coverage - Cured | 0.925 | cm ³ /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 | 50000 to 60000 | cP | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Color | | | |
| -- ² | Clear/Transparent | | |

| | | | |
|--------------------------------|---------------|---------|-------------|
| -- ³ | Translucent | | |
| Viscosity | | | |
| -- ⁴ | 1.0 to 2.0 | Pa·s | |
| -- ⁵ | 90 to 110 | Pa·s | |
| Curing Time | 16 to 24 | hr | |
| Pot Life | 60 to 120 | min | |
| Cured Properties | Nominal Value | Unit | Test Method |
| Shore Hardness | | | |
| Shore A ⁶ | 38 to 46 | | |
| Shore A ⁷ | 38 to 46 | | |
| Tensile Strength | 3.79 to 4.48 | MPa | ASTM D412 |
| Tensile Elongation at Break | 230 to 280 | % | ASTM D412 |
| Tear Strength | 17.5 to 24.5 | kN/m | ASTM D624 |
| Electric Strength | 20 | kV/mm | |
| Relative Permittivity (100 Hz) | 2.90 | | |
| Volume Resistivity | 1.0E+15 | ohms·cm | |
| Dissipation Factor (100 Hz) | 3.0E-3 | | |
| NOTE | | | |
| 1. | Mixed | | |
| 2. | Activator | | |
| 3. | Base | | |
| 4. | Activator | | |
| 5. | Base | | |
| 6. | 7 Days | | |
| 7. | 1 Day | | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

