Gelest® RG 04 2-Part Oleophobic Reprographic Silicone Elastomer (10:1 kit)

**Description**
Gelest® RG 04 is a clear to translucent molding and encapsulation compound with greater resistance to swelling by hydrocarbons than conventional silicones, allowing for use of a wider range of solvents for microfluidic applications.

**Cured Properties**
- Tensile Strength: 1.5-2.0 MPa
- Elongation: 150-200%
- Durometer, Shore A: 25-30
- Refractive Index (25°C): 1.39
- Specific Gravity: 1.36
- Contact Angle, water: 110°
- Contact Angle, hexadecane: 45°

<table>
<thead>
<tr>
<th>Swell (wt%)</th>
<th>Toluene</th>
<th>7%</th>
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<td>Heptane</td>
<td>2%</td>
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**Uncured Properties of Gelest® RG 04**
- Viscosity (10:1) catalyzed: 30,000-35,000 cSt
  - Part A (base): 65,000-70,000 cSt
  - Part B (crosslinker): 800-1200 cSt

**Application Methods**
Thoroughly mix Part A with Part B in a 10:1 ratio. (Due to the high viscosity of this system, the mixing step is not as facile as standard PDMS elastomers.) De-air mix under vacuum for about 30 minutes. The pot-life is 6 hours at 25°C. Pot-life may be extended by storing at 5°C. Pour into mold or apply to substrate. Avoid entrapping air. Cure at 80°C for 4 hours or at room temperature for 72 hours.

**Standard Packaging**
- PP2-RG04  Gelest® RG 04
  - 100 g SpeedMixer™ kit
  - 220 g kit (200g RG04-A, 20g RG04-B)
  - 1.1 kg kit (1000g RG04-A, 100g RG04-B)