

## Gelest® RG 05 2-Part Low Volatile Content Reprographic Silicone Elastomer (10:1 kit)

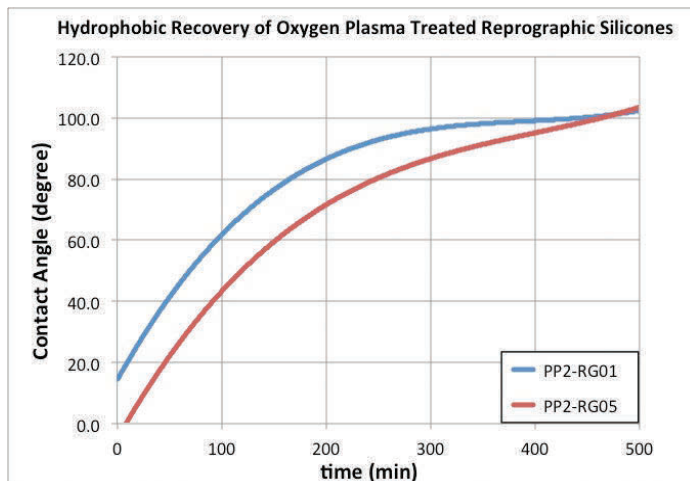
Capsular Description: **Thick**  
 Thickness: **thick**  
 Cure: **Pt** catalyst  
 Hardness: **medium**  
 Type: **100% active 2-part**

### Description

Gelest® RG 05 is a flexible, clear, high definition molding and encapsulation compound with low volatile content and greater dimensional stability. This low volatility formulation offers lower extractables and reduces the rate of hydrophobic recovery, providing improved performance in micro-electronic and medical applications. The low volatile content allows for a greater window for long-term surface treatments.

### Cured Properties

Tensile Strength	5.5-7.0 MPa
Elongation	80-100%
Durometer, Shore A	45-60
Refractive Index (25°C)	1.43
<b>Volatiles (4 hours/150°C)</b>	<b>≤0.2 wt%</b>
Dielectric Constant	2.7
Critical Surface Tension	23-24 mN/m
Tear Strength	1.75-2.60 kN/m
Specific Gravity	1.04
Contact Angle, water	105-110°



### Uncured Properties of Gelest® RG 05

Viscosity (10:1) catalyzed:	3500-5000 cSt
Part A (base):	5000-6000 cSt
Part B (crosslinker):	50-75 cSt

Standard Reprographic PDMS

Volatiles (4 hours/150°C) ≥ 1.0 wt%

### Application Methods

Thoroughly mix Part A and Part B in a 10:1 ratio. Try to avoid introducing bubbles. For critical applications, de-air mix under vacuum for about 20 minutes. The pot-life is 12 hours at 25°C. Avoid entrapping air during transfer and casting. Cure at 80°C for 4 hours or at room temperature for 36 hours.

### Standard Packaging

- PP2-RG05 Gelest® RG 05
- 100 g SpeedMixer™ kit
- 220 g kit (200g RG05-A, 20g RG05-B)
- 1.1 kg kit (1000g RG05-A, 100g RG05-B)