

Gelest® RG 02 2-Part Oleophilic Reprographic Silicone Elastomer (10:1 kit)

Capsular
Description:

Thickness



thick

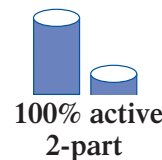
Cure **Pt**
catalyst

Hardness



medium

Type



100% active
2-part

Description

Gelest® RG 02 is a clear to translucent, high definition molding and encapsulation compound with greater adsorption of hydrocarbons than conventional silicones making it able to transfer a wider range of chemicals for self-assembly techniques and micro-contact printing.

Cured Properties

Tensile Strength	2.0-4.0 MPa
Elongation	80-100%
Durometer, Shore A	35-45
Refractive Index (25°C)	1.43
Dielectric Constant	2.6
Critical Surface Tension	27-29 mN/m
Tear Strength	1.75-2.10 kN/m
Specific Gravity	1.04
Contact Angle, water	110-115°

Swell (wt%)

Toluene	130%
Heptane	117%

Standard Reprographic PDMS Swell (wt%)

Toluene	90%
Heptane	83%

Uncured Properties of Gelest® RG 02

Viscosity	(10:1) catalyzed: 3000-4000 cSt
	Part A (base): 5000-5500 cSt
	Part B (crosslinker): 35-75 cSt

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. Pot-life may be extended by storing at 5°C. Apply to substrate. Avoid entrapping air during transfer and casting. Cure at 80°C for 4 hours or at room temperature for 36 hours.

Standard Packaging

PP2-RG02	Gelest® RG 02
100 g	SpeedMixer™ kit
220 g	kit (200g RG02-A, 20g RG02-B)
1.1 kg	kit (1000g RG02-A, 100g RG02-B)