

Gelest® cPDMS 2-Part Overcoatable Reprographic Silicone Elastomer (10:1 kit)

Capsular
Description:

Thickness



thick

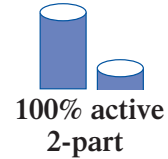
Cure **Pt**
catalyst

Hardness



medium

Type



100% active
2-part

Description

Gelest® cPDMS is an overcoatable clear molding and encapsulation compound which allows for multilayer fabrication. The moderate viscosity of the catalyzed mix and long pot-life at room temperature make this extremely useful in microcontact printing, prototype and small production run applications.

Cured Properties

Tensile Strength	6.0-7.0 MPa
Elongation	100-200%
Durometer, Shore A	40-50
Refractive Index (25°C)	1.41
Dielectric Constant	2.7
Specific Gravity	1.02

Uncured Properties of Gelest® cPDMS

Viscosity	(10:1) catalyzed: 3500-4500 cSt
	Part A (base): 4000-5000 cSt
	Part B (crosslinker): 500-750 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 4 hours at 25°C. Avoid entrapping air. Cure at 80°C for 1 hour or at room temperature for 24 hours. Overcoating should be done within 24 hours in all cases. Use standard cure conditions for overcoating. Final cure should be twice the time of the initial cure.

Standard Packaging

PP2-RG06 Gelest® cPDMS
100 g SpeedMixer™ kit
220 g kit (200g RG06-A, 20g RG06-B)
1.1 kg kit (1000g RG06-A, 100g RG06-B)