Gelest® sPDMS 2-Part Spin-Coatable Reprographic Silicone Elastomer (100:1 kit)

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

Description

Gelest® sPDMS is a spin-coatable, flexible, clear molding and encapsulation compound. This dilute formulation allows for spin-coating of Gelest® RG 01 thin films onto a substrate.

Solution Properties

Solids	8-12 wt%
Flashpoint	-4°C
Specific Gravity	0.71
Viscosity	1.0-2.0 cSt

Cured Properties

Tensile Strength	5.5-7.0 MPa
Elongation	80-100%
Durometer, Shore A	45-60
Refractive Index (25°C)	1.43
Dielectric Constant	2.7
Critical Surface Tension	23-24 mN/m
Tear Strength	1.75-2.60 kN/m
Contact Angle, water	105-110°

Uncured Properties of Gelest® sPDMS

Viscosity	(100:1) catalyzed: 1.0-2.0 cSt
	Part A (base): 1.0-2.0 cSt
	Part B (crosslinker): 50-75 cSt

Application Methods

Thoroughly mix Part A and Part B in a 100:1 ratio. The pot-life is 12 hours at 25°C. Recommended spin-coating speed is 1000-2000 rpm to achieve PDMS thin films with sub-micron thickness. Cure at 80°C for 4 hours or at room temperature for 36 hours.

Standard Packaging

PP2-RG08 Gelest® sPDMS
1.01 kg kit (1000g RG08-A, 10g RG08-B)