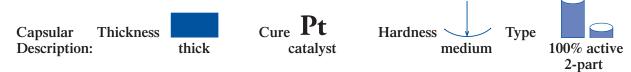
Gelest[®] RG 03 2-Part Hydrophilic Reprographic Silicone Elastomer (10:1 kit)



Description

Gelest[®] RG 03 is a clear to translucent, high definition molding and encapsulation compound with <u>improved surface wettability and reduced coefficient of friction</u> compared to conventional silicones. Microfluidic features exhibit lower hydrodynamic back-pressures.

4.0-6.0 MPa
100-200%
40-60
1.43
1.0-1.5
1.75-2.10 kN/m
1.04
85°

Uncured Properties of Gelest[®] RG 03

Viscosity (10:1) catalyzed: 3000-4000 cSt Part A (base): 3500-4500 cSt Part B (crosslinker): 50-75 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-RG03 Gelest[®] RG 03 100 g SpeedMixer[™] kit: 220 g kit (200g RG03-A, 20g RG03-B) 1.1 kg kit (1000g RG03-A, 100g RG03-B)

Application and Reference Data

1. Goff, J. et al. MRS Proceedings 2014, 1626.