

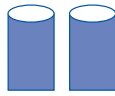


Gelest® OE 43 1.43 Refractive Index 2-Part Silicone RTV Encapsulant (1:1 kit)

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

Gelest® OE 43 is a flexible, optically clear molding, encapsulation and coating compound, offering improved adhesion to substrates compared to Gelest® OE 41. The low viscosity of the catalyzed mix, long pot-life at room temperature and moderate cure temperature make this extremely useful in laboratory, prototype and small production run applications.

Cured Properties

Refractive Index (25°C)	1.43
Tensile Strength	>1.5 MPa
Elongation	75-100%
Durometer, Shore A	5-15
Tear Strength	0.90-1.75 kN/m

Uncured Properties of Gelest® OE 43

Viscosity (1:1) catalyzed: 800-1500 cSt

Application Methods

Thoroughly mix Part A with Part B in a 1:1 ratio. De-air mix under vacuum for about 20 minutes. The pot-life is 18 hours at 25°C. Pot-life may be extended by storing at 5°C. Pour into mold or apply to substrate. Avoid entrapping air. Cure at 55°C for 4 hours or at room temperature for 72 hours.

Standard Packaging

PP2-OE43 Gelest® OE 43
1 kg kit (500g OE43-A, 500g OE43-B)
6 kg kit (3000g OE43-A, 3000g OE43-B)

Application and Reference Data

Employed in microfluidics waveguides.

1. Kee, J. et al. *Optics Express* **2009**, 17(14), 11739.