



# Gelest Flexible Optical Encapsulant Series

## Filler-Free 2-part Silicone Elastomers

Features: Provide rapid-cure pure silicone elastomers with high optical transmission They have relatively low viscosity and extended pot-life, allowing potting, embedding and coating. Systems are vinyl-addition (platinum) cure.

Applications:

**electronic devices** - provide mechanical and chemical protection to electronic components, free of abrasive silica.

**optical devices** - index matching, cladding or transmission media applications.

**supported membranes** - filler-free silicone allows maximum transport of gases.

Capsular Description:	Thickness thick	Cure <b>Pt</b> catalyst	Hardness medium	Type 100% active 2-part
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**Gelest OE™ 41** 1.41 refractive index 2-part silicone RTV encapsulant, supplied as 1:1 kit

### Description

Gelest OE™ 41 is a flexible, optically clear molding, encapsulation and coating compound. 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

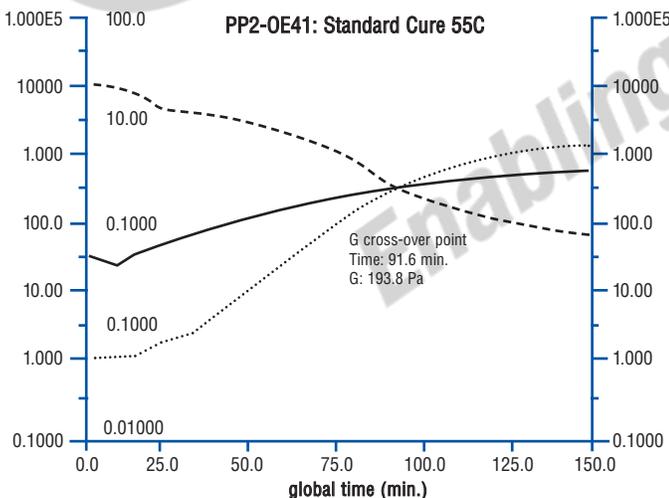
Refractive Index	1.407
Tensile Strength	>300psi
Elongation	140-200%
Durometer, Shore A	15-30
Tear Strength	5-15pli

### Uncured Properties of Gelest OE™ 41

Viscosity (1:1) catalyzed: 1750-2500 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 over 72 hours.



### Standard Packaging

PP2-OE41 **Gelest OE™ 41**

1 kg kit (500g OE41A, 500g OE41B):	\$84.00
6 kg kit (3kg OE41A, 3kg OE41B):	\$384.00

**Gelest OE™ 41 is available in other versions in which cure speed or volatile content has been varied to match special requirements.**

### Gelest OE™ 41.2 Accelerated Cure

Rapid cure version of standard Gelest OE™ 41, cures in less than 1 hour at room temperature, has a working time of about 10 minutes.

PP2-OE41.2 **Gelest OE™ 41.2**

1 kg kit (500g OE41.2A, 500g OE41.2B):	\$96.00
6 kg kit (3kg OE41.2A, 3kg OE41.2B):	\$384.00

### Gelest OE™ 41.4 Extended Cure

Slow cure version of standard Gelest OE™ 41, offers a pot-life of 48 hours at room temperature. Cures in one hour at 120°C

PP2-OE41.4 **Gelest OE™ OE41.4B**

1 kg kit (500g OE41.4A, 500g OE41B):	\$96.00
6 kg kit (3kg OE41.4A, 3kg OE41.4B):	\$384.00

### Gelest OE™ 41.6 Low Volatility

Low volatility content of **Gelest OE™ 41.6** offers advantages in electrical and high vacuum where bleed or migration of low molecular weight species can have deleterious effects.

PP2-OE41.6 **Gelest OE™ 41.6**

1 kg kit (500g OE41.6A, 500g OE41.6B):	\$160.00
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### Gelest OE™ 41.7 Low Volatility in solution

A single component solution version in toluene which cures after evaporation of solvent i 24 ours to form optically clear films.

Product must be stored <5°C

PP1-OE41.7 **Gelest OE™ 41.7**

100g/\$85.00