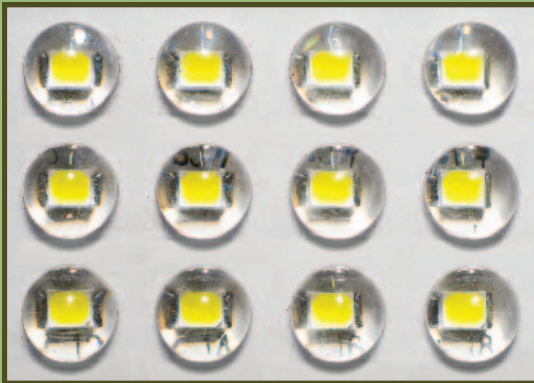


*Enabling Your Technology*

## Optically Clear Performance Products



Gelest has a successful history of developing optical, reprographic, and gel formulations. Gelest, Inc. now offers new pre-formulated optical encapsulants and optical hard coating materials.



A thin film optical coating deposition on an optic imparts different behaviors. Silicone gels and elastomers as cladding/sealing materials have high optical transmission.



Optical coating materials containing silicon can be modified to have refractive indices matching those of the substrate. Visit [gelest.com](http://gelest.com) for more information about the products.

## Optical Grade Silicone Encapsulants (Mix Ratio 1:1, 2-Part Platinum Addition)

Product Code	Refractive Index	Tensile Strength (MPa)	Elongation (%)	Durometer (A)	Viscosity Mixed (cSt)	Specific Gravity	Cure Time/Temp	Potlife (hr)
Gelest® OE39	1.39	0.05	1400-1600	5	3000-5000	1.03	4h/80°C	18
Gelest® OE41	1.41	>2	140-200	15-30	1750-2500		4h/55°C	18
Gelest® OE42	1.42	>1.5	90-150	10-25	1500-2000		4h/55°C	18
Gelest® OE43	1.43	>1.5	75-100	5-15	800-1500		4h/55°C	18
Gelest® OE46	1.46	0.25	30-50	10-20	1500-2500	1.05	4h/55°C	18
Gelest® OE46.1	1.46	0.55	65-75	30-45	15,000	1.19	4h/55°C	18
Gelest® OE46.2	1.46	1-1.5	200-250	45-50	30,000	1.22	4h/55°C	18
Gelest® OE50	1.50	0.1	75-100	10-20	3000-5000	1.07	4h/55°C	12

## Optical Grade Silicone Hard Resin Coatings (1-Part)

Product Code	Refractive Index	Hardness	Viscosity (cSt)	Flash Point °C	Specific Gravity	Solids (wt%)	Cure Time/Temp
Optisil® 155A1	1.55		3-5	35	0.95	10	1h/25°C + 0.5h/240°C
Optisil® 155B2	1.54-1.56	120R	3-5	35	0.95	20	1h/25°C + 0.5h/240°C
Optisil® 156A1	1.56		3-5	35	0.92	10	1h/25°C + 0.5h/220°C
Optisil® 157A1	1.57		3-5	35	0.92	10	1h/25°C + 0.5h/220°C
Optisil® 157B2	1.56-1.58	110R	3-5	35	0.92	20	1h/25°C + 0.5h/220°C
Optisil® 158A1	1.58		3-5	35	0.92	10	1h/25°C + 0.5h/220°C
Optisil® 159A1	1.59		3-5	35	0.92	10	1h/25°C + 0.5h/220°C
Optisil® 164A1	1.64		2-3	35	0.95	10	1h/25°C + 0.5h/220°C