



ISO 9001-2008 Certified

Selector Guide

FIBER-OPTIC & OPTICAL PRODUCTS

Our optical adhesives are used for bonding and coatings in various fiber optic applications. These adhesives are frequently used to bundle optical fibers and bond components in optoelectronic devices used for telecommunication networks, aircraft, and satellites, medical and scientific instruments.

Product	Mixed Viscosity @ 25C (cp)	Pot Life @ 25°C (20 grams)	Cure Schedule	Color Before/after cure	Refractive Index	Spectral Transmission	Hardness Shore	Lap Shear Strength (psi)	Tg (°C)	CTE (below Tg) 10 ⁻⁶ /°C	Shelf life
EB-103F	5000-10,000	5 minutes	2 hrs @ 25°C	Clear/Clear	1.54	>85% 440-900nm	D-65	2000	43	52	1 year @ 25°C
EB-103M-SCL	600-1000	5-10 minutes	2-4 hrs @ 25°C	Clear/Clear	1.54	>95% 460-1620nm	D-65	2000	45	80	1 year @ 25°C
EB-106	400-700	1-2 hrs	24 hrs @ 25°C 2 hrs @ 65°C	Clear/Clear	1.52	>98% 400-700nm	D-85	2100	65	40	1 year @ 25°C
EB-107LP-1	100-200	1-2 hrs	24 hrs @ 25°C 2 hrs @ 65°C	Clear/Clear	1.52	>98% 400-700nm	D-85	2100	65	40	1 year @ 25°C
EB-107LP-2	200-500	>6 hrs	24 hrs @ 25°C 2 hrs @ 65°C	Clear/Clear	1.53	>99% 400-1200nm >98% 1200-1600nm	D-80	2100	80	80	1 year @ 25°C
EB-109M-4	100-200	1 hr	24-48 hrs @ 25°C 2-3 hrs @ 65°C	Clear/Clear	1.54	>94% 400-1600nm	D-50	2200	45	80	1 year @ 25°C
EB-109M-6	100-200	1 hr	24-48 hrs @ 25°C 2-3 hrs @ 65°C	Clear/Clear	1.54	>94% 400-1600nm	D-70	2200	49	74	1 year @ 25°C
EB-109M-8	100-200	>1 hr	24 hrs @ 25°C 2 hrs @ 65°C	Clear/Clear	1.53	>94% 400-1600nm	D-25	1400	30	>100	1 year @ 25°C
EB-112LV-2	150-300	>4 hrs	2 hrs @ 100°C 1 hr @ 125°C	Clear/Clear	1.54	>98% 800-1600nm	D-89	2100	130	52	1 year @ 25°C
EB-119SP	3000-5000	>4 hrs	30 min @ 100°C <5 min @ 150°C	Clear amber /Dark Red	1.57	>97% 800-1600nm	D-85	2100	105	52	1 year @ 25°C
EB-119M	700-900	>8 hrs	5-10 min @ 150°C ½ hr @ 125°C	Clear/ Dark Red	1.56	>97% 800-1600nm	D-91	2000	158	54	1 year @ 25°C
EB-119HT	3000	>8 hrs	5-10 min @ 150°C Or ½ hr @ 125°C	Clear/ Dark Red	1.56	>97% 800-1600nm	D-88	1700	138	54	1 year @ 25°C
EB-177	150-300	24 hrs	1 hr @ 150°C	Clear amber /Dark Amber	1.52	>99% 600nm >95% 1000-1500nm	D-88	1500	97	56	1 year @ 25°C
SC-416	2500-3500	4 hrs	1 hr @ 100°C	Clear/Clear	1.4	NA	A-40	NA	NA	NA	1 year @ 25°C
SC-417	300-500	20 minutes	1 hr @ 100°C	Clear/Clear	1.4	NA	A-23	NA	NA	NA	1 year @ 25°C

DISCLAIMER: All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.



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Recommended Application Table

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Product	103F	103-M-5CL	106	107-LP-1	107-LP-2	109-M-4	109-M-6	109-M-8	112-LV2	119SP	119M	119HT	177	SC-416	SC-417
Bonding glass fiber to fiber optic connector	●	●	●	●	●	●	●	●	●	●	●	●	●		
Bonding fiber optic cable jacket to non-crimp type fiber connect	●	●	●	●	●	●	●	●	●	●	●	●			
Glass fiber potting with excellent wicking										●	●	●	●		
Plastic & glass fiber potting or Lens & prism bonding		●	●	●	●	●	●	●	●	●	●	●			
Potting, coating or bonding opaque components															
Potting or casting optically clear components	●	●	●	●	●	●	●	●	●					●	●
Excellent spectral transmission in thin bond lines & visible light	●	●	●	●	●	●	●	●	●						
Autoclavable		●							●	●	●	●	●		
Medical device meets USP class VI		●	●	●	●				●	●	●	●	●		
Potting IR Detectors		●	●	●	●	●	●	●	●				●		
Flexible – Bonding or coating stress sensitive components					●	●	●	●	●					●	●
Optical Replication			●	●	●	●	●	●	●						
Fiber optic bundling in ferules		●	●	●	●	●	●	●	●	●	●	●	●		
Low stress on large core glass fibers in connectors		●	●	●	●	●	●	●	●		●	●		●	●
Glob Top/Optic-coupler		●	●	●	●	●	●	●	●						
X-ray Detection			●	●	●	●	●	●	●						

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