



Room Temperature Curing Optical Adhesives

Why are Room Temperature (RT) Optical Adhesives Important?

- Ideal for bonding temperature sensitive substrates.
- No need for an oven to accommodate large parts.
- Lowest stress cure for large parts or high stress temperature cycling.

	Product	Viscosity (cPs)	TI	Cure Time @ 23°C	Pot Life (hrs)	Tg	Die Shear (kg)	Color After Cure	Features	
REACH Compliant	301-2FL Family									
	301-2FL	100-200 @100 rpm	n/a	3 days @ 23°C 3 hours @ 80°C	10	≥45°C	≥10	clear/ colorless	Flexible, optically clear, low temperature cure adhesive	Compliant, low temperature curing for stress relief of sensitive parts.
	301-2FL-T	300-600 @100 rpm	2.6	3 days @ 23°C 3 hours @ 80°C	5	≥45°C	≥5	cloudy/ colorless	Thixotropic version of 301-2FL	Now available in a non-flow rheology version.
REACH Compliant	302-3M Family									
	302-3M	800-1,600 @100 rpm	n/a	24 hours @ 23°C 3 hours @ 65°C	1	>55°C	≥10	clear/ colorless	Optically clear, low temperature cure adhesive with excellent reliability and 85°C/85%RH resistance.	
	302-3M-R	592 @100 rpm	n/a	24 hours @ 23°C 3 hours @ 65°C 1 hour @ 80°C	2	61°C	24	clear/ orange	Version of 302-3M with enhanced 85°C/85%RH resistance Three levels of viscosities/ rheologies for a variety of application techniques.	IR transparent, fast curing, with superior moisture resistance. Orange in color when cured above 100°C.
	OE145-4	683 @100 rpm	2.1	24 hours @ 23°C 3 hours @ 65°C 1 hour @ 80°C	2	59°C	22	cloudy/ orange		
OE145-5	1,163 @100 rpm	2.9	24 hours @ 23°C 3 hours @ 65°C	2	59°C	24	cloudy/ orange			



Typical Applications Using RT Curing Optical Adhesives

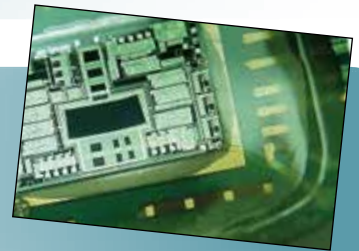
Exceptional Moisture Resistance with a Low Temperature Cure

- Stress sensitive FO connections
 - PM fibers
 - Polymer fibers
 - Multi-mode fibers
- Precision optics attach
 - Low shrinkage for best possible alignment of prisms, lenses and mirrors
- Near hermetic sealing (package sealing in temperature sensitive environments)
 - Batteries
 - Sensitive electronics



Semiconductor Packaging

- Low shrinkage for large die underfill or encapsulant
- SMD/SMT staking of temperature sensitive packages
- Stress sensitive ferrite bonding



Small Potting/Encapsulation

- Moisture sensitive electronics and sensors



Medical/Life Science

- Suggested for plastic structural and sealing applications of medical electronics outside the body, whether home care or clinical care
- Water-proofing, potting and sealing consumer related electronics, whether hand held or worn, found in leisure, sports rehab, or home-care devices and applications

Please consult our **Application Experts** to assist in selecting the most suitable adhesive for your specific technical challenge: techserv@epotek.com



DISCLAIMER: Data presented is provided only to be used as a guide. Properties listed are typical, average values, based on tests believed to be accurate. It is recommended that users perform a thorough evaluation for any application based on their specific requirements. Epoxy Technology makes no warranties (expressed or implied) and assumes no responsibility in connection with the use or inability to use these products. Please refer to the product data sheets and safety data sheets (SDS) for more detailed information.

Epoxy Technology Inc. • 14 Fortune Drive • Billerica, MA 01821
phone 978-667-3805 fax 978-663-9782 techserv@epotek.com
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