



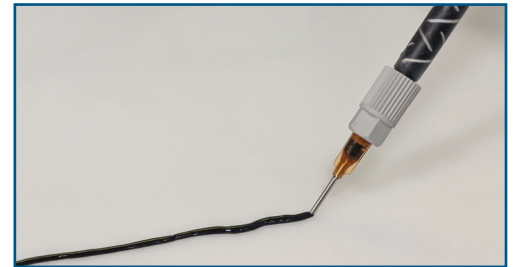
EFI POLYMERS

FORMULATED SOLUTIONS WORLDWIDE

AN INDUSTRY LEADER IN CUSTOM FORMULATIONS

POLYURETHANE ADHESIVES, POTTING COMPOUNDS & ENCAPSULANTS

EFI Polymers is a custom formulator and global supplier of specialty adhesives, potting compounds, encapsulants, and industrial coating products. Our model is simple; unrivaled customer service and the vigorous pursuit of a polymer solution uniquely tailored to your critical requirements. Our goal is to increase performance, reduce costs, and extend the life of your products.



HIGHLIGHTED MARKETS AND APPLICATIONS

ELECTRICAL POTTING & ENCAPSULATION

- Capacitors & Transistors
- Electric Motors
- Lighting
- Power Management
- Sensitive Electronics

AVAILABLE CHEMISTRIES

- Epoxy Amine/Anhydride Cured Systems
- Polyurethane, Polyurea & Polyaspartics
- UV Cured Acrylic Systems
- Waterborne PVA/VAE & Polyurethanes
- Silicone Encapsulants and Potting

SPECIALTIES INCLUDE CUSTOM FORMULATIONS

- Customized Polymer Solutions
- Elevated Temperature Performance (>180°C)
- Tailored Coefficient of Thermal Expansion (CTE)
- High & Low T_g Systems (-50°C - 200°C)
- High Thermal Conductivity
- Thermal Cycling Resistant (-40°C - 180°C)
- Water, Vapor and Chemical Resistance

UNDERWRITER'S LABORATORY RECOGNIZED MATERIAL

- Extensive UL 1466 Insulation systems available for adoption (UL File number E210549)
- Over 40 UL recognized epoxy and urethane systems
- UL 1446: Thermal stability as part of an electrical insulation system for use up to 180°C (Class H)
- UL 94: Certifications for Flammability of Plastics up to the highest flame rating of UL94- 5VA
- Other UL Certifications include Elevated RTI, CTI, HWI, HAI, & F1

SYSTEM DESIGN

- Ease of handling & processing
- Low viscosity
- Maximize Air Release
- Optimized Cure Cycle
- Cost Effective

SAFETY, HEALTH & ENVIRONMENT

- REACH, RCRA, TSCA, GHS, RoHS compliant
- Follow American Chemical Society (ACS) Responsible Care® Guidelines



POLYURETHANE ADHESIVES, POTTING COMPOUNDS & ENCAPSULANTS

With over 200 polyurethane systems, EFI Polymers can meet the most demanding application requirements. When more rigorous or challenging performance is required, we have a +25 year record of excellence in development of custom polymer solutions.

SystemID	Primary Application	Mixed Visc. (cps) @ 25° C	Mix Ratio by Volume	Gel Time (min)	Hardness Value	Tg(° C)	Description
30009/40002	Electrical Potting	1,250	5.5:1	15	55A	-76	Very good hydrolytic stability, flow and stress sensitive electronics (SMT). It provides excellent hydrolytic stability and outstanding electrical properties up to 155° C. Amber, unfilled.
30020/40018	Electrical Potting	500	2.18:1	49	65A		A clear-yellow, unfilled, flexible, urethane that has a low mixed viscosity and moderate gel time make this a viable systems for automated production or hand mixing. Light yellow, unfilled.
30021/40002	Electrical Potting	1,000	2.04:1	10	75A	30	This system is designed for ambient cured applications requiring good hydrolytic stability and low viscosity. Black, unfilled.
30032/40033	Electrical Potting	850	1.59 : 1	60	70A	8	An unfilled, green pigmented, flexible, tough, low viscosity, ambient cure potting system. This system is designed for small to medium potting applications. Clear green, unfilled.
30035/40036	Electrical Potting	250	2:1	30	45A	-54	A low mixed viscosity. This system is designed for ambient cure or heat cure applications for SMT electronics or under the hood applications. Black.
30037/40039	Electrical Potting	180	2:1	5	72D		A durable system with excellent dimensional stability and adhesion to aluminum. Designed for small to medium size potting applications with fast gel time. White.
30039/40041	Electrical Potting	800	4:1	60	70A	55	30039/40041 is a UV resistant, flexible urethane potting system with a low mixed viscosity with a moderate get time. Clear.
30208/40002	Electrical Potting	11,000	4.9:1	35	50D	20	A red, filled, flexible, flame retardant, urethane that has a low mixed viscosity and moderate gel time. Very good hydrolytic stability and flame retardant capabilities.
30209/40002	Electrical Potting	5,000	6.8:1	18	40A	-50	This system is designed for ambient cured applications requiring good hydrolytic stability and flexibility. Black, filled.
30211/40008	Electrical Potting	4,600	4:1	60	70A	-63	A flexible, urethane that is UL listed for UL94-V0 and UL94-5VA at 1/4". With a superior "0" rating for HWI, HAI & CTI. Very good hydrolytic stability, flame retardancy and flexibility. Black, filled.
30222/40020	Electrical Potting	6,000	4:1	60	60A	-76	UL listed for 94-HB. Has a superior "0" rating for HWI and HAI. Good hydrolytic stability, flame retardancy, and flexibility and for potting stress sensitive electronics (SMT). Black, filled.
30227/40002	Electrical Potting	4,000	4.9:1	35	50D	10	Cost effective system that is designed for ambient cured applications requiring good hydrolytic stability and flame retardant capabilities. Black, filled.
30241/40045	Electrical Potting	5,000	100:23.5	15	53	9	30241/40045 is a two component, filled, flexible polyurethane potting system. Product cures with low exotherm, resulting in low stress to internal components. With good electricals, and thermal cycling performance product is suitable for a variety of applications.
30242/40045	Electrical Potting	4,000	5:1	35	50D	7	Suitable for applications up to 130° C. 30241/40042 UL 94-HB variant available. Black, filled.