UL RECOGNIZED
Potting Systems

EPIC RESINS
Polymers for Industry.
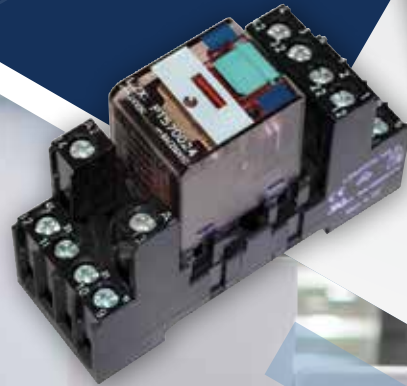
YOUR UL SOLUTION

Epic Resins specializes in formulating adhesives, varnishes, potting and encapsulating compounds to meet your specific product and process needs. Our UL file contains over 40 different UL rated epoxies and polyurethanes to fit your unique application requirements. Our knowledgeable Technical Sales team is ready to assist you in finding a solution to fit your needs.

Epic Resins is continually adding products to our UL file. Please check the UL Online Certifications Directory under Epic Resins, file number E55516, for the most up to date listing of our UL recognized potting compounds.

UL RECOGNIZED **EPOXIES**

R1000-01/H5000
Epic R1000-01/H5000 is a filled epoxy resin system that is UL 94 HB recognized. The resin is stabilized to permit successful use of dispensing equipment, as well as manual batch processing. Room temperature and elevated temperature curing options are available. This material is used in a variety of applications including capacitors, resistors, diodes and torch heads.

R1055/H5083
Epic R1055/H5083 is a two component, vacuum grade epoxy system that is compounded to achieve excellent penetration of tightly wound electrical coils. The system cures at ambient temperatures thereby affording the user reduction in energy costs associated with heat curing epoxy systems. When fully cured, it features a combination of exceptional physical and electrical properties that qualify the compound for potting high voltage power supplies.

R1074-06/H4030-02
Epic R1074-06/H4030-02 is a UL 94 V-0 recognized premium fire retardant epoxy potting compound. It is a good fit for applications that are thermal cycled between -40°C and 85°C. Features include a long work life and convenient 1:1 mix ratio. It is free of heavy metals and PBDEs throughout the fomulation for RoHs compliancy.

R3000/H3000
Epic R3000/H3000 is a two component epoxy potting compound with a convenient 1:1 by weight or volume mix ratio. It has been formulated to provide a rigid cured epoxy that is recognized to a UL 94 V-0 flame rating and has a blush free finish.

S7065-03
Epic S7065-03 is a two component heat cure epoxy potting system developed for impregnating and potting high voltage coils for maximum environmental protection. This material features non-abrasive fillers that make it well suited for most meter mix dispense systems. It is UL 94 V-0 recognized, has an RTI rating of 130°C and is RoHS compliant.

S7174-03
Epic S7174-03 is a UL 94 V-0 recognized, two component, filled epoxy potting and casting system. This material features a low mixed viscosity, convenient 3:1 volumetric mix ratio and very low shrinkage. It is designed to operate in applications at temperatures up to 130°C and can handle short durations of temperatures that exceed 130°C.

S7242
Epic S7242 is a UL 94 HB recognized, two component epoxy potting and casting compound. This product features a low coefficient of thermal expansion. It can be hand mixed or dispensed via meter mix machinery due to the use of non-abrasive fillers. The material is used in applications that require chemical resistance combined with thermal shock resistance.

S7244
Epic S7244 is a general purpose two component, filled epoxy potting and casting system. It is UL 94 HB recognized and performs strong in applications where electrical insulating properties and thermal conductivity are required.

S7397-03
Epic S7397-03 is a two component electrical potting epoxy resin compound that is UL 94 V-0 recognized. Key features for this compound include a 1:1 mix ratio by weight or volume, high durometer, long pot life, medium viscosity and RoHS compliance.

UL RECOGNIZED **POLYURETHANES**

S7144-16

Epic S7144-16 is a UL 94 HB recognized, two component polyurethane used in potting electronic devices. It has an extremely low mixed viscosity, which lends itself well to sand impregnation and offers good hydraulic stability. The material is used in applications requiring high operating temperature ratings, low glass transition temperature and a convenient 3:1 volumetric mix ratio.

S7202 SERIES

Epic S7202 series of potting compounds are two component polyurethanes designed for outdoor electrical potting applications with sensitive components. It is formulated with a variety of gel times to allow for superior component impregnation and air release. The entire series is UL 94 V-0 recognized and is formulated using RoHS compliant materials.

S7302

Epic S7302 is a tough UL 94 HB recognized polyurethane material designed for electronic potting applications. The chemistry is designed for applications that are exposed to a wide range of temperatures and are thermal cycled between -40°C and 135°C with excursions up to 160°C. Features include good moisture resistance and good adhesion to various metals and plastics.

S7325-04

Epic S7325-04 is a UL 94 HB recognized, two component polyurethane compound specifically designed for potting and casting applications. It was formulated to have a convenient 1:1 volumetric mix ratio and a quick gel time to reduce work in process. It has shown minimal weight loss through thermal aging and is suitable for use in temperature ranges from -40°C to 125°C, with brief excursions to 135°C. Applications that use this material may include control modules, sensors, switches or PCBs with high profile surface mount devices.

S7348 SERIES

Epic S7348 series of thermally conductive, two component polyurethane potting compounds are UL 94 V-0 recognized without the use of halogen fire retardants. This product series offers an assortment of gel times to fit your application needs, and all versions feature a high shore hardness combined with high tensile strength and superior adhesion.

S7453

Epic S7453 is a UL 94 HB recognized, two component polyurethane potting compound. The long pot life and low viscosity allow the material to flow into tight tolerance areas, allowing air to escape without the use of a vacuum chamber. It is free of all heavy metals and polybrominated compounds restricted by RoHS.

S7475

Epic S7475 is a UL 94 V-0 recognized, two component polyurethane potting compound that was formulated for potting a wide variety of electronics with sensitive components, such as electronic control modules (ECMs). The low mixed viscosity allows the material to flow under printed circuit boards and other tight tolerance areas. Extremely low hardness combined with low Tg provides excellent flexibility, allowing delicate surface mounted devices (SMDs) to expand and contract during thermal cycling and thermal shock. This is also an excellent choice for applications that generate a great deal of heat, due to its low weight loss at elevated temperatures. It has a convenient 4:1 volumetric mix ratio and is formulated with RoHS compliant materials.

S7478 SERIES

Epic S7478 series of products are two component polyurethane potting compounds. This series provides flexible systems with high thermal stability for harsh outdoor environments, such as outdoor LED drivers and power supplies. These products are UL 94 V-0 recognized in a thin cross section without the use of halogen flame retardants and have achieved a UL RTI rating of 140°C. This series is used in LED drivers that must meet requirements of UL 8750, the safety standard for LED equipment for use in lighting products. Process-friendly features for this series include: low mix viscosity, assortment of gel times and colors, excellent moisture resistance and thermal conductivity.

S7489

Epic S7489 is UL 94 V-1 recognized, two component polyurethane potting compound. It is free of bromine and halogenated flame retardants. The 4:1 volumetric mix ratio makes this system very adaptable to meter mix and dispense machinery. Features include: very low glass transition temperature, low hardness and RoHS compliant materials.

S7506

Epic S7506 is a UL recognized, two component polyurethane potting compound with a medium Shore A hardness and fast gel time for quick processing. This compound is suitable for use in transformers and other electrical devices. It is formulated without the use of halogenated or heavy metal flame retardants and is RoHS compliant.

S7516

Epic S7516 is a two component polyurethane electrical potting compound that is UL 94 V-0 recognized. This polyurethane provides superior thermal resistance, a long gel time and a medium hardness upon cure. It is formulated without the use of halogenated or heavy metal flame retardants and is RoHS compliant.

S7524

Epic S7524 is a two component, transparent potting compound that is UL 94 V-0 recognized. This unique potting and encapsulating compound features low viscosity, low density and low hardness properties that make it suitable for many potting applications. The low density sets it apart from traditional UL 94 V-0 potting compounds; OEM's can have a lighter finished unit. The transparency allows for use with indicator lights that will be completely encapsulated. Applications include energy storage devices, touch pads, senor potting and many other general encapsulating applications.

S7527 SERIES

Epic S7527 is a series of UL 94 V-0 recognized, flexible polyurethane potting compounds that are made from RoHS compliant materials. They are designed for potting and encapsulating sensitive electronics, which will be exposed to harsh environments. A convenient volumetric mix ratio of 5:1 makes these compounds very adaptable to meter mix and dispense machinery. Features include low mixed viscosity, high thermal conductivity, high temperature stability, adhesion to a variety of substrates and excellent moisture resistance. Applications include access card readers and other radio frequency devices, outdoor LED displays, sensors and a variety of automotive applications.

S7553

Epic S7553 is a UL 94 V-0 recognized two component polyurethane. It has a very low glass transition temperature of -65°C, a convenient volumetric 4:1 mix ratio and a low mixed viscosity to enable flow into tight tolerances. It provides excellent adhesion to most plastic and metal substrates while providing maximum protection in harsh environments. This material is ideal for electronic potting applications involving high temperature and high vibration. Applications include bus splitters, DC contactors and shunt regulators.

S7564

Epic S7564 is a UL 94 V-0 recognized, two component polyurethane potting compound designed with high hardness that is RoHS compliant. This material was designed for an electronic device that controls static and can be used in applications requiring a low mixed viscosity to penetrate closely spaced PCB components. It offers a 30-minute gel time that can modified to accommodate high volume production lines.

RM2018

Epic RM2018 is a two component polyurethane potting and encapsulating compound that carries a UL 94 V-0 flammability rating. It is designed for potting DC/DC converters, GPS sensors and other electronic devices that require flexibility over a wide temperature range. RM2018 also features a convenient 4:1 volumetric mix ratio, low Tg and excellent electrical stability over various frequencies.

ABOUT EPIC RESINS

An established leader in epoxy and polyurethane technologies for industry.
Founded in 1958, Epic Resins has earned an international reputation as a leading formulator, manufacturer and supplier of epoxy resin and polyurethane solutions. Our philosophy is based on listening to your needs and developing quality solutions to meet your challenges. We built our company on technology-proven chemistry and a wealth of market and application knowledge. This guarantees you consistent products and maximum value.

MISSION: Epic Resins is committed to serving our global customers as a most trusted partner in superior quality resins and polymers to enhance their profitability and performance.

WE BELIEVE IN:

Customer Relationships
Value our customers and listen to their needs. Strive to make our customers' lives easier. Develop relationships that make a positive difference in our customers success. Deliver beyond expectations.

Quality
Commit to excellence every day. Satisfy our customers' needs with superior products, innovative technology and outstanding service, that when combined, deliver exceptional value to our customers.

Responsibility
Act with uncompromising honesty and integrity in everything we do for ourselves and our customers. Work smart and take care of our team in order to ensure sustainability and success.

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Contact the Technical Sales Staff at Epic Resins today!
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