

ELECTRONIC

Potting & Encapsulating
Compounds



EPOXIES



0155

Epic 0155 is a one component anhydride cure epoxy, which can be used in both casting and small potting applications.

0156

Epic 0156 is a single component 100% solids epoxy resin system designed for impregnation of coils, transformers, motors and other electrical items that require insulating. It has outstanding shelf stability, excellent chemical resistance and good electrical properties.

0161-04

Epic 0161 is a heavily filled, one component epoxy potting compound. Epic 0161 has been designed for applications where good thermal conductivity and low viscosity at 50°C are important design criteria.

R1055/H5083⁽¹⁾

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 premium fire retardant epoxy potting compound that is UL 94 V-0 recognized. This formulation could be considered for use in applications that are thermal cycled over a wide temperature range. Epic R1074-06/H4030-02 features a long work life, convenient 1:1 mix ratio and is free of heavy metals and PBDEs for RoHS compliance.



R3501/H5064

Epic R3501/H5064 is a two component, optically clear, room temperature curing epoxy potting compound. This unfilled product features a 2:1 volumetric mix ratio for ease of use in meter mix and dispense equipment, an extremely low viscosity for flowing under printed circuit boards, and chemical resistance for applications in hazardous locations.

S7136

Epic S7136 is a two component epoxy potting and casting compound. It has been designed for applications that require low water absorption and good chemical resistance in conjunction with good thermal conductivity. When cured for 1 hour @ 100°C, Epic S7136 has outstanding chemical resistance and has shown no physical breakdowns after a 1 year soak in methylene chloride.

S7151

Epic S7151 is a two component general purpose epoxy potting and casting compound. It retains a high gloss finish in the cured state, resulting in very attractive finished parts. Epic S7151 is an excellent choice for many potting applications and features a meter-mix friendly 3:1 by volume mix ratio, very low shrinkage and good adhesion to a variety of metal and plastic substrates.

S7174-03

Epic S7174-03 is a UL 94 V-0 recognized, two component filled epoxy potting and casting system. It features a low mixed viscosity, convenient mix ratio and very low shrinkage. Epic S7174-03 is designed to operate in applications at temperatures up to 130°C and can handle short temperature excursions exceeding 130°C.

POLYURETHANES



S7230

Epic S7230 is a medium viscosity, two component epoxy resin system designed for potting or encapsulation of electronic components. Epic S7230 features non-abrasive fillers, a convenient 2:1 mix ratio and improved resistance to thermal shock.

S7532

Epic S7532 is a two component, optically clear epoxy potting compound. The clarity of Epic S7532 allows the end user to read information printed below a ¼" cross section of material, such as barcoding applications. The electrical properties and water resistance of this epoxy makes it an excellent choice for use in applications that are subject to harsh environmental conditions. This product offers a convenient mix ratio of 2:1 by volume, making it very meter mix and dispense machine friendly.

S7379

Epic S7379 is a two component epoxy potting compound designed to provide crack resistance in applications subject to wide range thermal cycling and thermal shock. This system features a 2:1 volumetric mix ratio, making it ideal for use in meter mix and dispense machinery.

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. The low viscosity allows the material to flow into intricate places, under printed circuit boards and other tight tolerance areas. RM2018 also features a convenient 4:1 volumetric mix ratio, low Tg and excellent electrical stability over various frequencies.

S7144

Epic S7144 is a two component polyurethane system designed for potting electronic devices. It lends itself well to sand impregnation and offers good hydrolytic stability. This product is designed with a convenient 3:1 by volume mix ratio and a 77 - 83 Shore A hardness.

S7214

Epic S7214 is a two component polyurethane casting compound designed with a fast gel time and rapid hardness development. It has been formulated for applications where excellent chemical resistance at ambient and elevated temperatures is an important design criteria. When mixed, S7214 results in dark green colored castings.

S7281

Epic S7281 is a two component aliphatic polyurethane potting compound designed with a fast cure and convenient 1:1 mix ratio by volume. Due to the low hardness and very low glass transition temperature, S7281 allows expansion and contraction of solder joints and delicate electronic components without causing failures from mechanical stresses. It excels in high temperature applications, displaying very low weight loss at 125°C over extended periods of time.

S7302

Epic S7302 is a tough polyurethane material designed for electronic potting applications. It lends itself well for products that are exposed to a wide range of temperatures. This compound is adequate for applications that 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. S7302 is a UL 94 HB recognized system.

S7318

Epic S7318 is a two component polyurethane potting compound that is designed for use in high voltage ignition coils. This material features low hardness, low mixed viscosity and a long gel time at room temperature. Epic S7318 maintains a high dielectric strength after exposure to 135°C.



(1) Denotes products designed specifically for high voltage applications.



S7325

Epic S7325 is a two component polyurethane compound specifically designed for potting and casting applications. It features a low hardness, convenient 1:1 volumetric mix ratio and short working times.

S7344

Epic S7344 is a two component urethane system based on polybutadiene chemistry designed for electronic potting applications. It features low mixed viscosity, high temperature stability and convenient 1:1 volumetric mix ratio. The low hardness offers protection for delicate electronic devices subject to thermal cycling and thermal shock.

S7348-01

Epic S7348-01 is a rigid, two component polyurethane potting compound which is UL 94 V-0 recognized. S7348-01 is formulated without the use of halogen fire retardants.

S7351

Epic S7351 is a two component, room temperature cure, polybutadiene based polyurethane. It was specifically formulated for potting electronic marine modules (EMM) and is also an excellent candidate for potting electronic control modules (ECM). Due to its low hardness and flexibility, this polyurethane reduces stress on delicate surface mounted devices (SMD) on printed circuit boards (PCB). This is an excellent alternative to rigid systems that cause failures by not allowing expansion and contraction of delicate components. Epic S7351 provides excellent high temperature properties up to 125°C and much improved chemical resistance.

S7356

Epic S7356 is a two component polyurethane potting compound specifically formulated for automotive sensors, switches and other electrical devices requiring protection from “under the hood” environments. It has successfully passed automotive thermal shock and thermal cycling evaluations and also proven itself in a wide range of automotive applications. It features a convenient 1:1 mix ratio by volume and low viscosity, making it very accommodating to meter mix and dispense equipment. Epic S7356 offers a very fast room temperature gel time in small mass, making it an excellent system for applications requiring small dispense volumes with the advantage of rapid cycling of parts.

S7376

Epic S7376 is a two component polyurethane compound with a long history in the automotive field in a wide range of applications that require thermal shock and thermal cycling evaluations such as sensors, switches and relays. It features a convenient 1:1 by volume mix ratio that makes it accommodating to meter mix and dispense applications and fast gel time for rapid cycling of parts.

S7475

Epic S7475 is a UL 94 V-0 recognized, two component polyurethane potting compound for potting electronics with sensitive components. The low mixed viscosity allows the material to flow into intricate areas under printed circuit boards and other tight tolerance areas. 4:1 by volume mix ratio allows the system to be very adaptable for meter mix and dispense processing. Very low hardness combined with low Tg provides excellent flexibility, therefore allowing delicate surface mounted devices to expand and contract during thermal cycling and thermal shock.



S7478

Epic S7478 is a two component polyurethane potting compound that provides a flexible system with high thermal stability for high temperature, harsh environment applications such as outdoor LED drivers and power supplies. It's UL 94 V-0 recognized in a thin cross section without halogen flame retardants. This material has a good balance of physical properties over a wide temperature range.

S7527

Epic S7527 is a two component polyurethane potting and encapsulating compound that is UL 94 V-0 recognized and features a 150°C RTI rating. It provides excellent thermal properties and moisture resistance. This material is used in radio frequency devices, outdoor LED displays, sensor and control modules, and a variety of automotive applications. This formulation does not include phosphate or halogen containing flame retardants and is formulated with RoHS compliant materials.

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!

 (800) 242-6649 |  sales@epicresins.com |  www.EpicResins.com
 600 Industrial Blvd, Palmyra, WI 53156 |  Follow us on LinkedIn

