EPON equipment is resistant to high temperatures

Overview

EPON Resin 164 systems exhibit high Tg's and heat deflection temperatures (HDT's) and better retention of properties at elevated temperatures (see Table 2). They display superior strength and modulus which translates to greater stiffness and rigidity and an ability to withstand higher. EPONTM Resin 828 is an undiluted clear difunctional bisphenol A/epichlorohydrin derived liquid epoxy resin. When cross-linked or hardened with appropriate curing agents, very good mechanical, adhesive, dielectric and chemical resistance properties are obtained. As a result, the viscosity of this product is lower than standard bisphenol A liquid resins without the use of diluents or modifiers. Resin/curing agent systems based on EPON 825 have greater clarity, chemical resistance. With EPON laminates of this type, either boiling in water or aging at 95-100% relative humidity and 100F for one hour caused a greater loss in strength than soaking for 30 days.

Article Content

Technical Data Sheet: EPON™ Resin 828 | PDF

Technical Data Sheet EPON™ Resin 828 Product Description EPON™ Resin 828 is an undiluted clear difunctional bisphenol A/epichlorohydrin derived liquid epoxy

Technical Data Sheet

For these reasons, EPON Resin 164 is preferred for high temperature adhesives, structural composites, and other high performance products in the aircraft and aerospace industry.

Technical Data Sheet

When blended with EPON Resin 828, EPON Resin 862 provides a technique to reduce viscosity with no sacrifice in chemical and solvent resistance properties, and the blended resin will exhibit improved

Technical Data Sheet

The low color of EPON Resin 825 will produce low color castings suitable for such optically demanding applications as LEDs and LCDs. The low viscosity permits degassing at high vacuum even at

Technical Data Sheet

High fiber content with low void content can be achieved with this resin. Structural composites such as this have a high ratio of strength to weight. This makes them suitable for applications ranging from

A Step-by-Step Introduction to EPON Modules

EPON modules are integral components in fiber-to-the-home (FTTH) networks, delivering high-speed internet access to residential and commercial

High Temperature Epoxy Coating for Ultimate Thermal

Boilers, turbines, and exhaust systems are subjected to persistent high-temperature operating conditions. Epoxy coatings avoid surface

Unmodified Liquid Epoxy Resins

EPON™ Resin 825 is a high purity bisphenol A epichlorohydrin liquid epoxy. As a result, the viscosity of this product is lower than standard bisphenol A liquid

Technical Data Sheet

EPON Resin 828 is an undiluted liquid epoxy resin that is available in tank cars, tank trucks and 500 pound net closed head drums. EPON Resin 828 is normally shipped in bulk from 150 °F (66 °C) to

Data on mechanical and thermal properties of an amine-epoxy system

The aim of this work is to provide a manufacture guide for producing a tailor-made amine-epoxy system that can operate at different services temperatures depending on the post-curing

Technical Data Sheet

Cured EPON Resin 828 is highly resistant to a broad range of chemicals, including caustic, acids, fuels and solvents. Chemically resistant reinforced structures and linings or coatings over metal can be

Technical Data Sheet

Typical Properties EPON Resin 162 has lower viscosity than EPON Resin 828 (standard liquid epoxy resin based on Bisphenol-A). EPON Resin 162 is easily handled at room temperature; however, its

Technical Data Sheet Product Description and chemical resistance ...

EPON Resin 862 should be stored in tightly sealed containers of metal, glass, or polyolefin plastic at normal room temperatures. If EPON Resin 862 develops haziness or crystallizes during storage, it

EPON Resin 828 Technical Data Sheet | PDF | Epoxy | Materials

Technical Data Sheet EPON™ Resin 828 Product Description EPON™ Resin 828 is an undiluted clear difunctional bisphenol A/epichlorohydrin derived liquid epoxy resin. When cross-linked or hardened

Technical Data Sheet

Powder coatings formulated using EPON Resin 2004 give all of the benefits traditionally associated with epoxy coatings. They provide tough and durable films which have excellent adhesion to most

HIGH STRENGTH EPON LAMINATES

Laminates from liquid EPON resins cured with dicyandiamide have shown promising high-temperature resistance. At 1500C after 1/2 hour at that temperature, flexural values up to 44,000 psi have been

Epon 828

Chemical Resistance Cured EPON Resin 828 is highly resistant to a broad range of chemicals, including caustic, acids, fuels and solvents. Chemically resistant

EPON™ and EPI-REZ™ Epoxy Resins

EPON 862 DGEBPF 25 – 45 165 –173 200 9.8 Low viscosity Bisphenol F liquid epoxy used alone or in blends with other resins. Allows high solids formulations with good chemical resistance. A high

Microsoft Word

EPON - Elastomer Modified Epoxy Resins 10 These products offer improved adhesive properties, thermal shock resistance and toughness, with good fatigue resistant properties.

MSC_152_Letter dd

These non-ionic aqueous dispersions of our epoxy resins provide benefits such as lower VOC, extended pot life, high crosslink density, high temperature performance, very good chemical resistance, B

Technical Data Sheet

EPON Resin 161 is only moderately higher in viscosity that EPON Resin 828. If desired as an aid to handling and processing, the viscosity may be reduced substantially by heating. Figure 1 illustrates

EPON™ Resin 825

Resin/curing agent systems based on EPON 825 have greater clarity, chemical resistance, higher heat distortion temperature, and lower electrical conductivity than can be obtained with most other

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Cured EPON Resin 828 is highly resistant to a broad range of chemicals, including caustic, acids, fuels and solvents. Chemically resistant reinforced structures and linings or coatings over metal can be

EPON and EPI-REZ Epoxy Resins

EPON – Epoxy Novolac Resins 12 These products are specifically designed to provide increased levels of thermal stability and chemical resistance, and are used in composites, structural adhesives,

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