

# Technical Data Sheet

## EPON™ Resin 826

### Product Description

EPON™ Resin 826 is a low viscosity, light colored liquid bisphenol A based epoxy resin. It finds use in a variety of applications when crosslinked or hardened with appropriate curing agents.

### Application Areas/Suggested Uses

- Fiber reinforced pipe and composites
- Tooling and molding compounds
- Construction, electrical and aerospace adhesives
- Electrical castings and laminates
- Chemical resistant high solids tank linings
- Flooring
- Grouting compounds

### Benefits

- Low viscosity
- Low color
- Low ionic contamination
- Reacts with a full range of curing agents
- Produces high-strength cured systems resistant to chemical attack

### Sales Specifications

Property	Value	Unit	Test Method
Color	1 max	Gardner	ASTMD1544
Viscosity at 25°C	65 - 95	P	ASTMD445
Weight per Epoxide	178 - 186	g/eq	ASTMD1652

### Typical Properties

Property	Value	Unit	Test Method
Density at 25°C	9.7	lb/gal	ASTMD1475
Density	1.16	g/mL	
Viscosity at 50°C	4.5	P	ASTMD445
Viscosity at 100 °C, cone-plate visco	0.8	P	ASTMD445

### Processing/How to use

#### General Information

The low viscosity and curing properties of EPON Resin 826 allow its use under various conditions and fabrication techniques. These include:

EPON Resin 826  
<https://www.hexion.com/en-US/product/epon-resin-826->

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• Spraying and brushing	• Pultrusion
• Filament winding	• Casting
• Pressure laminating	• Molding
• Vacuum bag laminating	• Troweling

#### Benefits

EPON Resin 826 can be crosslinked with a variety of curing agents/depending on processing conditions and properties desired for the finished product. A guide to selecting curing agents for combination with EPON Resin 826 for various applications given in technical bulletin SC:235-01.828.

EPON 826 is commonly used to fabricate high strength fiber reinforced pipes and composites. The low viscosity of the resin provides rapid wetout of a wide range of reinforcing fibers including glass, graphite, aramid and boron. 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 sporting goods equipment to aerospace structural members.

EPON Resin 826 systems are also excellent electrical insulators. Such systems are used frequently in electrical encapsulations, laminates and molding compounds.

Structures, linings and coatings made with EPON Resin 826 protect metal surfaces and resist attack from acids, bases, solvents and fuel. They find use in the oil, gas, mining and chemical industries.

The higher shear strength obtained with EPON Resin 826 adhesives is due in part to the low internal stresses inherent in cured epoxy resins. Such adhesives are used to bond a broad range of substrates..

#### FDA

Several paragraphs of Title 21 of the Code of Federal Regulations permit and regulate the use of epoxy resins such as cured EPON Resin 826 as indirect food additives in food contact applications. Examples are: 175.105 and 175.300.

For further information on the FDA status of EPON Resin products, contact your HEXION Representative.

## Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

EPON Resin 826 may occasionally crystalize, this is evident by the products visual appearance that can range from a hazy liquid to a waxy semi-solid. Resin that has crystallized can be reconstituted by gentle warming of the entire container and its contents to approximately 120-140 °F until all visual evidence of crystallization has gone away.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

## Packaging

Available in bulk and drum quantities.

## Contact Information

For product prices, availability, or order placement, please contact customer service:

[www.hexion.com/Contacts/](http://www.hexion.com/Contacts/)

For literature and technical assistance, visit our website at [www.hexion.com](http://www.hexion.com)

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