Technical Data Sheet

EPON™ Resin 162

Product Description

EPON Resin 162 is a multifunctional epoxidized phenolic novolac resin. It combines low viscosity and ease of processing with good thermal stability and chemical resistance for use in a number of epoxy applications. EPON Resin 162 can be used as the sole resin component or in combination with standard epoxy resins. EPON Resin 162 is capable of curing with all classes of curing agents.

Application Areas/Suggested Uses

- Industrial flooring and coatings
- Filament wound laminates
- Electrical encapsulation and transfer molding
- High temperature molding compounds
- Adhesives

Benefits

- Low viscosity for corresponding functionality
- Ease of handling
- Superior chemical resistance
- Good thermal resistance

Sales Specifications

Property	Value	Unit	Test Method
Color	3 max.	Gardner	ASTM D1544
Epoxide Equivalent Weight	166 - 178	g/eq	ASTM D1652
Viscosity at 25°C	6000 - 7800	cP	ASTM D2196

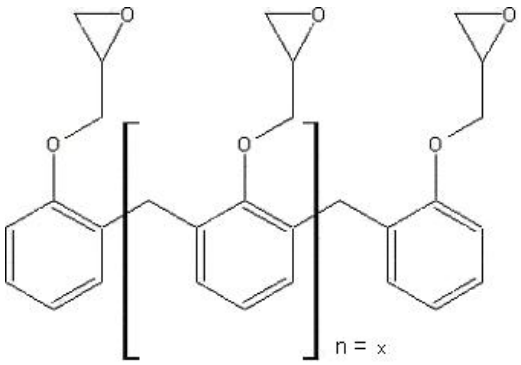
Typical Properties

Property	Value	Unit	Test Method
Density at 25°C	9.95	lb/gal	ASTM D1475

Processing/How to use

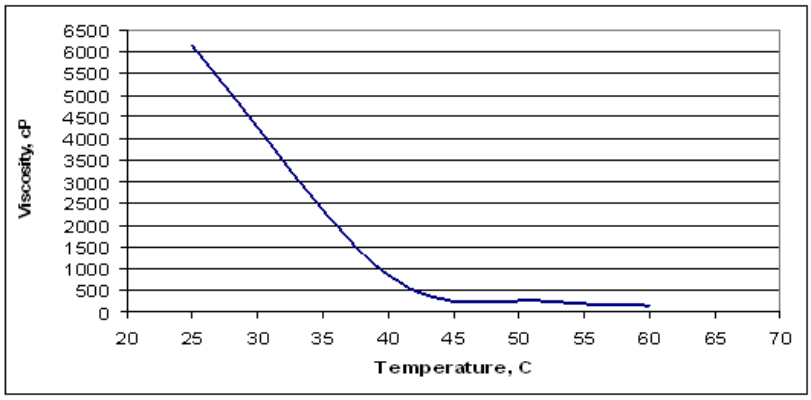
General Information

Chemical Structure
EPON Resin 162 is an epoxy phenolic novolac resin with an average functionality of 2.2. Its chemical structure is shown below. The average repeating unit, n, equals 0.2 for this epoxy resin.



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 viscosity can be reduced by heating if desired. Figure 1 illustrates the effect of temperature on the viscosity of this resin. EPON Resin 162 is suitable for use with a variety of curing agents. Cure times and temperatures can be varied depending upon the curing agent used and the target end use application. In all cases, actual performance in the intended application should be carefully evaluated.

Figure 1 / Effect of Temperature on Viscosity of EPON 162



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.

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/

For literature and technical assistance, visit our website at: www.hexion.com/epoxy