

Technical Data Sheet

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EPON™ Resin 815C

Product Description

EPON Resin 815C is a low viscosity liquid bisphenol A based epoxy resin containing a commercial grade of n-butyl glycidyl ether. EPON Resin 815C is functionally equivalent to EPON Resin 815, and is suitable as a replacement for EPON Resin 815 in most applications.

Application Areas/Suggested Uses

- Adhesives
- Electrical casting and encapsulation
- Contact and vacuum bag laminating
- Solventless coatings
- Floor topping and grouting compositions
- Tooling

Benefits

- Low viscosity, allows for easy pumping and wetting of pigments and fillers
- 100% reactive. Reacts with a full range of curing agents
- Provides minimal reduction of performance properties

Sales Specification

Property	Units	Value	Test Method/Standard
Weight per Epoxide	g/eq	180 – 195	ASTM D1652
Viscosity at 25°C	P	5 – 7	ASTM D445
Color	Gardner	1 max.	ASTM D1544

Typical Properties

Property	Units	Value	Test Method/Standard
Density at 20°C	lb/gal	9.44	ASTM D1475

Processing/How to use

Performance Properties

Table 1 / **EPON™ Resin 815C and EPON Resin 815 with EPIKURE™ Curing Agent 3282**

	<u>Method</u>	<u>Units</u>	<u>A</u>	<u>B</u>
EPON Resin 815C		pbw	100	---
EPON Resin 815		pbw	---	100
EPIKURE™ Curing Agent 3282		pbw	20.5	20.9
Handling Properties @ 25°C				
Gel Time, 100 gram mass		minutes	19.6	21.3
Cured State Properties				
Heat Distortion Temperature	ASTM D648	°C	66	72
Tensile Sstrength	ASTM D638	psi	10,800	10,600
Tensile Elongation		%	6.5	6.0
Tensile Modulus		ksi	457	473
Hardness	Shore D		84	83
Water Absortion ¹		%	0.09	0.07
Electrical Properties				
Dielectric Constant ²	ASTM D150		3.82	3.72

¹ Percent weight gain after 24 hours immersion at 25 °C.

² Determined at 1 megacycle

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

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