

## 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 <sup>1</sup>     |               | %            | 0.09     | 0.07     |
| Electrical Properties            |               |              |          |          |
| Dielectric Constant <sup>2</sup> | ASTM D150     |              | 3.82     | 3.72     |

<sup>1</sup> Percent weight gain after 24 hours immersion at 25 °C.

<sup>2</sup> Determined at 1 megacycle

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

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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, call our toll-free customer service number at: 1-877-859-2800

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

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