

# Technical Data Sheet

## EPI-REZ™ Resin 6006-W-68

### Product Description

EPI-REZ™ 6006-W-68 is a waterborne dispersion of an epoxidized ortho-cresylic novolac with an average functionality of six. This dispersion contains no organic cosolvents. EPI-REZ 6006-W-68 dries to a clear, tack-free film or can be cured with most conventional curing agents.

### Application Areas/Suggested Uses

- Fiber Sizings
- Adhesive applications
- Electronics and semiconductors
- Coating applications
- Composites

### Benefits

- High functionality resin
- High temperature stability
- Good chemical and abrasion resistance
- No VOC
- Superior hydrolytic stability
- Ease of handling

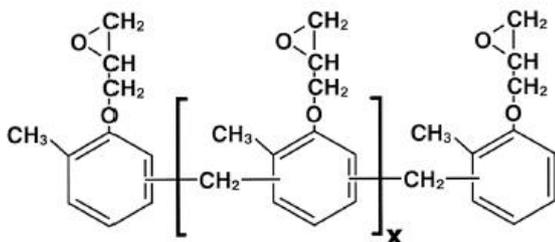
### Sales Specifications

| Property                       | Value      | Unit | Test Method |
|--------------------------------|------------|------|-------------|
| Particle Size , Number Average | 2 max.     | µm   | SRC 00033   |
| pH                             | 8.5 - 9.5  |      | ASTME70     |
| Solids                         | 63 - 67    | %    | ASTMD-1259  |
| Viscosity at 25°C              | 500 - 2000 | cP   | ASTMD2196   |
| Weight per Epoxide             | 230 - 270  | g/eq | ASTMD1652   |

### Processing/How to use

#### General Information

EPI-REZ 6006-W-68 is a waterborne dispersion of an epoxidized ortho-cresylic novolac. The representative structure is as follows:



EPI-REZ Resin 6006-W-68

<http://www.westlakeepoxy.com/en-US/product/epi-rez-resin-6006-w-68>

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EPI-REZ 6006-W-68 can be cured with most conventional curing agents to give polymers with high crosslink density. These cured materials provide high heat stability and superior chemical and solvent resistance. The following table illustrates that performance of EPI-REZ 6006-W-68 when cured for 20 minutes at 250 °F with various EPIKURE™ Curing Agents. Formulation D, with dicyandiamide/2-methyl imidazole (2-MI), was cured at 350 °F for 20 minutes. These thin films (1 mil) on steel Q panels show very good hardness and chemical/solvent resistance as expected for a highly functional resin.

| Composition                    | A    | B    | C    | D       |
|--------------------------------|------|------|------|---------|
| EPI-REZ 6006-W-68              | 100  | 100  | 100  | 100     |
| EPIKURE 3072                   | 19.3 | –    | –    | –       |
| EPIKURE 8535-W-50              | –    | 30.5 | –    | –       |
| EPIKURE 3370                   | –    | –    | 21.3 | –       |
| Dicyandiamide/2-MI             | –    | –    | –    | 3.5/1.0 |
| <b>Performance</b>             |      |      |      |         |
| Pencil hardness                | 5H   | 5H   | 6H   | >7H     |
| MEK double rubs                | >100 | >100 | >100 | >100    |
| Reverse impact                 | Fail | 20   | Fail | Fail    |
| <b>Spot tests <sup>1</sup></b> |      |      |      |         |
| 10% NaOH                       | NE   | NE   | NE   | NE      |
| 10% Acetic                     | 7F   | Fail | 6M   | NE      |
| 10% HCl                        | 10F  | Fail | 8F   | NE      |
| <b>Adhesion <sup>2</sup></b>   |      |      |      |         |
|                                | 2B   | 5B   | 2.5B | 5B      |

<sup>1</sup> ASTM D 714-56; NE = Not Effected

<sup>2</sup> ASTM D 3359-87

## Safety, Storage & Handling

Please refer to the SDS for the most current Safety and Handling information

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

For ease of handling and optimum shelf life, epoxy dispersions should be stored in tightly sealed containers at temperatures between 50 °F (10 °C) and 100 °F (37.8 °C). Do not allow the product to freeze. To prevent skinning or surface drying, do not leave the product uncovered for extended periods of time. If the need arises to store partially filled drums, replace the plastic top-sheet onto the surface of the liquid product. In general, these products should be lightly and thoroughly agitated before use to ensure uniformity.

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 Safety Data Sheet (SDS) 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 SDSs

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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, visit the "Contact Us" section of our website. For literature and technical assistance, visit our website at: [www.Hexion.com/epoxy](http://www.Hexion.com/epoxy)

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