

Technical Data Sheet

EPON™ Resin 896

Product Description

EPON™ Resin 896 is a solvent-free, epoxy resin designed for use with EPIKURE™ Curing Agent 3389 to give formulations with a high degree of chemical resistance. This epoxy resin has good crystallization resistance and low viscosity so it is easily handled. The cured system demonstrates superior mechanical strength and high heat deflection temperature (HDT) even without post curing at elevated temperatures.

It is important to note that only the combination of EPON® Resin 896 with EPIKURE™ Curing Agent 3389 provides the highest chemical resistance. Do not modify this system with additional diluents, or by adding solvents or modifiers, because this will decrease its performance. EPON Resin 896 and EPIKURE Curing Agent 3389 are designed to work together to provide low viscosity and superior chemical resistance for the application areas listed below.

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Application Areas/Suggested Uses

- Secondary containment
- Industrial flooring
- Tank linings
- High chemical resistance applications for food processing¹, food storage¹, waste water, pulp & paper; as well as, liquid coatings for pipe and petrochemical areas

Benefits

- Superior chemical resistance when used with EPON Resin 896
- Low viscosity
- High reactivity even down to 5 °C

Sales Specifications

| Property | Value | Unit | Test Method |
|-------------------|-------------|---------|-------------|
| Color | 2 max | Gardner | ISO 4630 |
| Epoxy Number | 21.7 - 22.7 | % | DIN 16945 |
| Viscosity at 25°C | 800 - 1100 | cP | DIN 53015 |

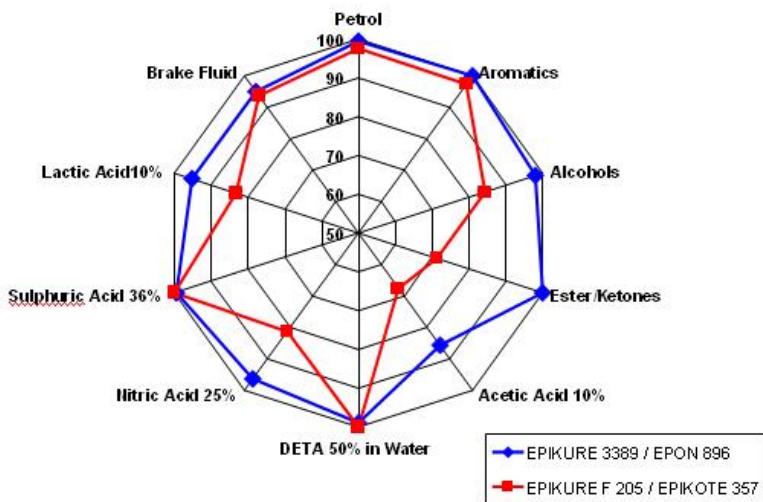
Typical Properties

| Property | Value | Unit | Test Method |
|---------------------------|--------------|--------|-------------|
| Density at 22°C | 9.7 - 9.8 | lb/gal | ASTMD742 |
| Epoxide Equivalent Weight | 189 - 199 | g/eq | ASTMD1652 |
| Physical Form | Clear liquid | | |

1) This product may be suitable for use in "indirect" food contact applications regulated by FDA 21CFR175.300. The FDA regulations must be consulted to determine the suitability of substances for use in specific "indirect" food contact applications. The responsibility for determining the overall compliance with applicable food additive/contact regulations is with the company manufacturing the final product and/or the person placing that product in contact with food.

Chemical Resistance

Comparison of a standard epoxy system (EPIKOTE™ Resin 357 with EPIKURE™ Curing Agent F 205) and the low viscosity, chemical resistant system demonstrates the superior performance of EPON™ Resin 896 / EPIKURE™ Curing Agent 3389 after four weeks exposure to different chemicals (Graph 1).



Graph 1: Shore D hardness after exposure of a standard epoxy system (in red) versus the low viscosity, chemical resistant epoxy system (in blue). Values were measured after four week immersion in the chemical. 100 = 100% of the original Shore D hardness. 50 = 50% of the original Shore D hardness.

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:

EPON Resin 896

<http://www.westlakeepoxy.com/en-US/product/epon-resin-896>

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