

Technical Data Sheet

EPON™ Resin CS-377

Product Description

EPON™ Resin CS-377 is a 100% reactive intermediate viscosity liquid bisphenol-A based epoxy resin modified with an aromatic glycidyl ether. This resin is specially designed for applications requiring an intermediate viscosity and low volatility. It exhibits minimal property loss under a broad range of processing or exposure conditions. This resin should be considered where improved handling is important for the formulated epoxy component.

Application Areas/Suggested Uses

- Industrial floor toppings and grouts
- High build glaze, sealer or gel coats
- General purpose casting and wet process composites
- Electrical encapsulation and potting compounds
- Low VOC high solids coatings

Benefits

- Intermediate viscosity
- Low color
- Similar viscosity and reduced crystallization compared to EPON Resin 826
- Good chemical resistance

Sales Specifications

Property	Value	Unit	Test Method
Color	1 max	Gardner	ASTMD1544
Viscosity at 25°C	75 - 95		ASTMD445
Weight per Epoxide	182 - 196	g/eq	ASTMD1652

Typical Properties

Property	Value	Unit	Test Method
Appearance	Clear Liquid		
Density	9.6	lb/gal	ASTMD1475

Processing/How to use

General Information

EPON™ CS-377 is an effective resin when cross-linked or hardened with appropriate curing agents and provides superior mechanical, adhesive, electrical, and chemical resistance properties. It is compatible with and can be cured or cross-linked with a variety of curing agents depending on properties desired in the finished product and the processing conditions employed. For ambient cure coating applications, EPIKURE™ Curing Agent 3140, 3155, 3164 and 3175 are potential curing agent candidates. For other applications, a wide range of EPIKURE 3200 series aliphatic amine and EPIKURE 3300 series cycloaliphatic amine curing agents are available.

EPON CS-377 can also be used to fabricate high strength fiber reinforced pipes and composites. The low viscosity of the resin provides rapid wet out of a wide range of reinforcing fibers including glass, graphite and aramid. High fiber loading with low void content can be achieved with this resin. The resulting structural composites have a high ratio of strength to weight which makes them suitable for applications ranging from sporting goods equipment to aerospace structural members. Potential curing agents include polymeric acids, anhydrides, phenolic resins, the

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<https://hexioninternet-hexioninternet-slave.azurewebsites.net/en-US/product/epon-resin-cs377>

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EPIKURE 9500 series products and EPIKURE W.

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.

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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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