# Vestlake Epoxy

## **Technical Data Sheet**

### HELOXY<sup>™</sup> Modifier 62

#### **Product Description**

HELOXY™ Modifier 62 is a commercial grade of o-cresyl glycidyl ether. A low viscosity aromatic monoepoxide, its primary use is the viscosity reduction of conventional epoxy resin systems.

#### **Benefits**

- Reduces viscosity of higher molecular weight aromatic epoxy resins
- Excellent retention of mechanical and chemical resistance cured state properties relative to other monoepoxides
- Low volatility
- Improves substrate and filler wetting of conventional formulations

#### Sales Specifications

	Property	Value	Unit	Test Method
Color		100 max.	Pt-Co	ASTMD1209
Epichlorohydrin		20 max.	mg/kg	SMS 2445
Viscosity at 25°C		5 - 10	сР	ASTMD445
Weight per Epoxide		175 - 195	g/eq	ASTMD1652

#### **Typical Properties**

Property	Value	Unit	Test Method
Density	8.9 - 9.1	lbs/gal	ASTMD1475

#### **General Information**

HELOXY 62 is compatible with virtually all classes of epoxy resins used in thermoset plastics and protective coatings applications.

As with any monoepoxide, modification of basic epoxy resins with HELOXY 62 reduces the average epoxide functionality of the mixture thereby lowering cured state chemical and solvent resistance and thermal performance. However, due to the highly aromatic structure of HELOXY 62, compromises in these properties are found to be minimized relative to those associated with other monoepoxides commonly used in the viscosity reducing modification of epoxy formulations.

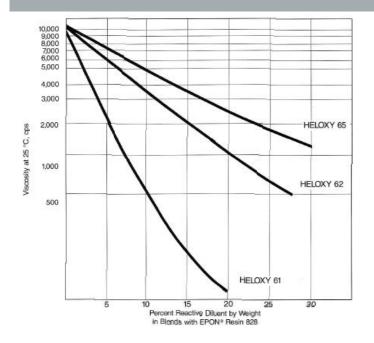
The relatively low molecular weight of HELOXY 62 makes it among the most efficient of the aromatic monoepoxides in reducing viscosity of basic epoxy resins. A comparison of this characteristic to that of other representative Heloxy modifiers is illustrated in Figure \$ince the degree to which performance properties are affected depends on the amount of Heloxy 62 in the formulation, the amount used should be limited to that necessary to yield the required viscosity reduction. The maximum recommended quantity of Heloxy 62 is about 30 percent of the resin portion. Curing agents that are recommended for satisfactory crosslinking of unmodified basic liquid epoxy resins can also be used with compositions containing HELOXY 62. Since the average weight per epoxide of HELOXY 62 is virtually identical to that of commercial liquid bisphenol A-based epoxy resins, differences in epoxy content due to HELOXY 62 modifications are normally insignificant and adjustments in curing agent combining ratio to maintain proper stoichiometry with HELOXY 62 modified blends is usually unnecessary.

As previously stated, the cured state properties at room temperature of epoxy formulations are not seriously affected when viscosity reduction is attained via HELOXY 62 unless excessive amounts are used. However, performance at elevated service temperatures may be reduced considerably. Data listed in Table 1 illustate the effect of HELOXY 62 on systems cured with various curing agents, including conventional polyamines, anhydrides, and EPIKURE™ 3072 Curing Agent. A preblend of HELOXY 62 and a standard bisphenol A based epoxy resin at a viscosity selected for ease of handling is available as EPON™ Resin 813. For information on the properties and suggested uses of this resin, please consult the appropriate product bulletin.

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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 atwww.hexion.com

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