Technical Data Sheet

Alkyl (C_{12}-C_{14}) Glycidyl Ether

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Product Description

Alkyl (C_{12}-C_{14}) Glycidyl Ether is a low-viscosity reactive diluent based on unmodified bisphenol A- or F-type Epoxy resin to formulate low-viscosity epoxy resin with suitable practical performance.

Application Areas

This product is mainly employed as a diluting agent, and/or toughener when combined with liquid epoxy resin. This is applicable for casting and encapsulating materials, adhesives, and floor and food-grade coatings.

Benefits

The use of epoxy modifier C_{12}-C_{14} in coating systems provides the following effects:

- Reduced viscosity
- Excellent substrate and filler wetting characteristics
- Good surface quality of the applied film
- moderate to good increase in flexibility
- Excellent surface appearance
- Good balance of hardness and flexibility

Safety, Storage & Handling

The C_{12}-C_{14} should be stored in the original tightly closed container in dry conditions. Storage between -5 and 30 (℃) is recommended. Under this condition, the shelf life is at least two years.

Product Specification

Property	Unit	Value	Test Method/Standard
Appearance	-	Clear liquid	Visual
Viscosity at 25 °C	mPa.s	5 – 10	ASTM D4878
Color	APHA	Max. 30	ASTM D1209
Density at 25 °C	g/ml	1.01	ASTM D1475
Epoxy Value	Eq/100 g	0.3 – 0.35	ASTM D1652
Epoxy Equivalent Weight (EEW)	g/eq	285 – 305	ASTM D1652
Moisture Content	%	Max. 0.1	ASTM E1064
Organic Chlorine	Eq/100 g	Max. 0.02	ASTM D4929

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