



Shanghai King Chemical Co.,Ltd

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TECHNICAL DATA SHEET ®

0176(E-39D) epoxy resin

0176(E-39D) epoxy resin is A low molecular weight semi-solid bisphenol A epoxy resin produced by the reaction of epichlorohydrin and bisphenol A.

Introduction

0176 (E-39D) epoxy resin is a low molecular weight epoxy resin, with high purity, light color, low hydrolyzed chlorine, narrow molecular weight distribution, less partial discharge and other excellent characteristics, successfully used in high voltage transformers, transformers, reactors and other insulation industries. By curing the resin at high temperatures, certain properties such as chemical resistance and glass transition temperature can be improved. If anhydride or catalytic hardeners are used, high temperature curing is required and a long post curing period is required for optimum performance. The liquid resin can be used at room temperature with a variety of curing agents, the most commonly used for aliphatic polyamines, polyamides, alicyclic amines and a variety of modified amines. After curing, it can be used as a high quality excellent undercoat with excellent weather resistance, solvent resistance and corrosion resistance.

Typical applications

This product is mainly suitable for the following occasions:

- High voltage transformers, transformers, reactors
- adhesive
- General anticorrosion coatings
- Composite materials
- Automobile coating
- Heavy anticorrosive coatings for ships
- Liquid packaging material

Typical Feature

project	The numerical
appearance	Viscous liquid (semisolid)
Colour and lustre (APHA)	Below 30
Epoxy equivalent (g/mol)	240-250.
Softening point (°C)	27-35
Hydrolyzed chlorine (%)	0.05 the following
Volatile (%), 150°C/40min	0.3 the following

Packaging and storage

Liquid epoxy resin of Phoenix brand 0176(E-39D) is supplied in sealed iron drums, in bulk or as agreed by both parties. This low molecular weight epoxy



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resin should be stored in its original sealed package in a dry place at a temperature of 10-40°C. Storage should be far away from high temperature fire, avoid sunlight. Under the above conditions, the epoxy resin shall maintain its chemical properties for a period of at least 12 months from the date of manufacture.

Safety and disposal

The product shall be processed, used and disposed in accordance with the relevant safety and health laws and regulations of the country and the region. For detailed information on the safety of this product, please refer to the CORRESPONDING MSDS report of this product.

contact

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statement

The above information is based on reliable data. However, the specific application occasions and application conditions are not within our control. The curing formula and curing performance are for reference only. Customers can confirm their own formula and achieve physical property data according to their own needs.

This product should be used with caution and in accordance with the laws of the relevant region or country. It is not recommended to use on critical components of medical equipment in direct contact with the human body for extended periods of time.