

# Bisphenol-A type Liquid Epoxy Resin E-44

## 1. Description

Bisphenol A type liquid epoxy resin E-44 is an unmodified liquid epoxy resin with medium viscosity produced from bisphenol-A and epichlorohydrin. It's viscosity is lower than E-51 and hence is preferred over E-51 where lower viscosity plays important role in processing and application. A wide variety of curing agents are available to cure this liquid epoxy resin at ambient conditions and also at elevated temperature. When cured with appropriate hardener, E-44 gives excellent mechanical, chemical, electrical and adhesion properties. Because of these properties it finds use in various applications

## 2. Application

- Solvent based, high solid content and solvent-free coatings
- Adhesives
- Civil and construction engineering industry
- Automotive coatings
- Can & coil coatings
- Marine and industrial protective coatings
- Tooling, potting, casting and molding compounds
- Composites

## 3. Product parameters

Appearance	Visual	Transparent, colorless to light yellow liquid
Color	ASTM D 1544-04	0.5Gmax
Epoxy equivalent	ASTM D 1652-04	210-188
Viscosity (25 °C)	ASTM D 2196-05	8000-11000cP
Hydrolyzed chlorine	ASTM D 1726-03	0.05 max
Epoxy value	ASTM D 1652-04	5.32-5.55

Density (25 )	ASTM D 1475-98	1.16g/ml
Water content	ASTM E 203-01	0.05 max
ECH content	TEC-AS-P-023	10ppm max
Flash point	ASTM D 93	150

#### **4. Product packaging**

This product is packed and transported in 220kg sealed iron drum.

Other packaging can be provided on request.

#### **5. Storage and precautions**

- 1). Epoxy resin should be stored in a cool and dry place, avoid rain and sun exposure.
- 2). When deploying epoxy resin, it is necessary to use it now and mix the curing agent in proper proportion to avoid waste.
- 3). Epoxy resin storage life is generally 1 year, beyond the time limit should be tested, meet the index can still be used.

#### **Disclaimer**

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