HUNTSMAN
Enriching lives through innovation

Advanced Materials

Phenoxy LER™HB#

CATINGS INDUSTRY SYSTEMS

DATA SHEET

Phenoxy LER™-HB is a 100% NV liquid Bisphenol A type epoxy resin having a 10% modification with low molecular weight Phenoxy PK™HB.

Applications

- Latent Cure Adhesives and Sealants
- Two Component Epoxy Coatings
- Inks
- Epoxy Based Composites
- Epoxy Based Pre-pregs

Properties

Phenoxy LER™-HB is a 100% NV liquid Bisphenol A type epoxy resin having a 10% modification with low molecular weight Phenoxy PK™HB.
Phenoxy (polyhydroxyether) resins are tough and ductile thermoplastic amorphous polymers having excellent thermal stability, as well as cohesive and adhesive strength.
Phenoxy LER-HB combines the reactivity of a standard liquid epoxy resin and the toughening of phenoxy resin in one package for use in formulating composites, coatings, inks, and adhesives.
Phenoxy LER™-HB can be further modified with liquid epoxy resins to provide for lower levels of contained phenoxy resin. Reactive diluents such as glycidyl ethers, and solvents such as benzyl alcohol and propylene carbonate, as well as other epoxy modifying agents can also be added to Phenoxy LER™-HB.
Single-package epoxy formulations containing Phenoxy LER™-HB and latent hardeners such as dicyandiamide will yield improved toughness and adhesive strength when properly cured on many substrates including steel, aluminum, glass and carbon fibers, and plastics such as nylon and polyester (PET).

Key data

Specified key data

Appearance	**Clear**	**[%]**
Viscosity @ 40 °C	**20000 – 50000**	**[mPa s]**
Epoxy equivalent weight	**202 – 214**	
Colour, Gardner	**0 – 2**	**[Gardner]**

Specified key data are individually checked throughout and guaranteed.

Typical key data

As-supplied form	Clear liquid
Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	1 year
Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapours
Disposal	regular procedures approved by local authorities

Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.

In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

Storage	Phenoxy LER™-HB should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.
Handling precautions	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets.

Huntsman Advanced Materials
(Switzerland) GmbH
Klybeckstrasse 200
4057 Basel
Switzerland

Tel: +41 (0)61 299 11 11
Fax: +41 (0)61 299 11 12

www.huntsman.com/advanced_materials
Email: advanced_materials@huntsman.com