


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YD 127
Description

Epotec YD 127 is an unmodified liquid epoxy resin with medium viscosity produced from bisphenol-A and epichlorohydrin. It's viscosity is lower than epotec YD 128 and hence is preferred over epotec YD 128 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, epotec YD 127 gives excellent mechanical, chemical, electrical and adhesion properties. Because of these properties it finds use in various applications.

Applications

- Solvent based, high solids and solvent free coatings
- Adhesives
- Civil engineering and construction industry
- Automotive coatings
- Can & coil coatings
- Marine and Industrial protective coatings
- Tooling, potting, casting and moulding
- Composites

Specification

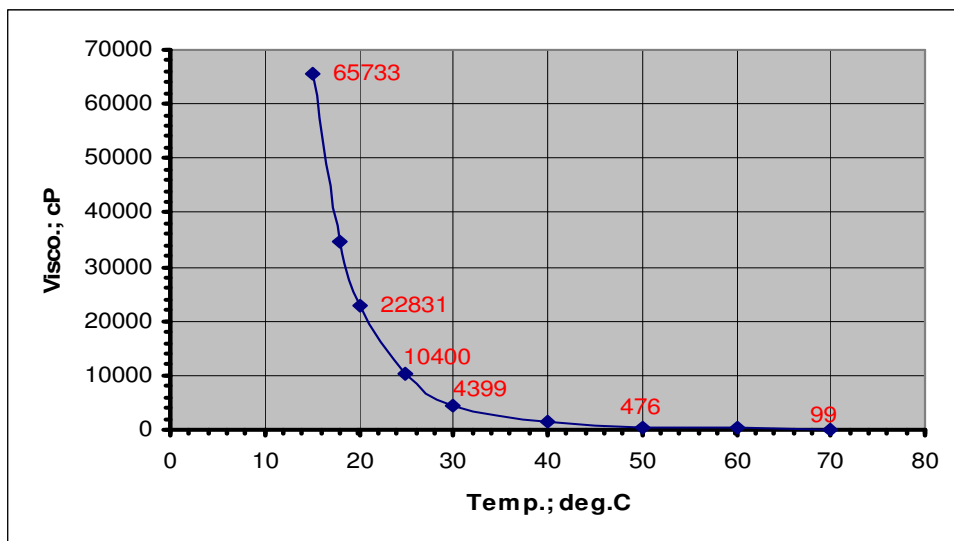
Appearance	Visual	Clear, colourless to light yellow liquid
Colour	ASTM D 1544-04	0.5 G max.
Epoxy Equivalent weight	ASTM D 1652-04	180 – 188 g/eq
Viscosity @25°C	ASTM D 2196-05	8,000 – 11,000 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.05 % max.

Typical properties *

Epoxide Value	ASTM D 1652-04	5.32 – 5.55
Density @25°C	ASTM D 1475-98	1.16 g/ml
Water content	ASTM E 203-01	0.05 % max.
ECH content	TEC-AS-P-023	10 ppm max.
Non-volatile content	ASTM D 1259-06	100 %
Flash point	ASTM D 93	> 150°C

* = Typical properties are indicated for information only

General information Epotec YD 127 – Viscosity Vs Temperature relation



Packing

Epotec YD 127 is packed and delivered in steel drums, 220 kg per drum as a standard pack. Other packs are available upon request.

Storage

Epotec YD 127 resin should be stored in original tightly closed container, in dry and warm conditions to avoid crystallization. Under these conditions, it has a storage life of at least two years from the date of manufacturing. Epotec YD 127 may become hazy or crystallize upon long storage especially when exposed to low temperatures. The resin can be restored to its original condition by warming to 55-60°C while stirring. For handling or pumping the maximum temperature recommended is 80°C.

Handling

Please refer to the MSDS of product for more instructions on storage and handling of epotec YD 127.

Disclaimer

All recommendations for use of our products whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although, the information contained in this sheet is accurate, no liability can be accepted in respect of such information. We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control.

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