


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

Epotec YD 127LC is a liquid epoxy resin, reaction product of Bisphenol A and epichlorohydrin. This resin provides less crystallization tendency compared with standard liquid resin.

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 127LC 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
- Composites

Specification

Appearance	Visual	Clear, colourless to light yellow liquid
Colour	ASTM D 1544-04	0.5 G
Epoxy Equivalent weight	ASTM D 1652-04	180 – 190 g/eq
Viscosity @ 25°C	ASTM D 2196-05	9,500 – 12,500 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.1 – 0.4 %

Typical properties *

Epoxide Value	ASTM D 1652-04	5.26 - 5.56
Density @25°C	ASTM D 4052	1.16 g/ml
Water content	ASTM E 203-01	0.1 % max
ECH content	TEC-AS-P-023	10 ppm max.
Non-volatile content	TEC-AS-P-012	100 %
Flash point	ASTM D 93	> 150°C

* = Typical properties are indicated for information only

General Information Epotec YD 127LC acquires resistance to crystallization through its higher hydrolysable chlorine content. It's a known fact that the presence of impurities affects the crystallization tendency of the liquid epoxy resin. The higher content of hydrolysable chlorine in the product acts as an impurity and reduces the crystallization tendency of the product. Although it might then look that the higher hydrolysable chlorine is desirable fact is it is not desirable in certain applications such as electrical / electronic applications.

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

Storage Epotec YD 127LC resin should be stored in original tightly closed container, in dry and warm conditions. Under these conditions, it has a storage life of at least two years from the date of manufacturing. Although epotec YD 127LC has much better crystallization resistance than standard epotec YD 127 in extreme weather conditions it may turn hazy or become crystallized. In such case 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 the MSDS of the product for more instructions on safe storage and handling of epotec YD 127LC.

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.

<p style="text-align: center;">For Additional Information, Please Contact: Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division) Mahatun Plaza Bldg., 16th Floor 888/167 Ploenchit Road, Lumpini, Bangkok 10330 Thailand. Tel: (662) 2535031-3, Fax: (662) 2535030 Web Site: www.adityabirlachemicals.com, E-Mail: epoxymktg@adityabirla.com</p>
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