


**Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)**
**EPOTEC YD 128ED**
**Description**

Epotec YD 128ED is an unmodified liquid epoxy resin with medium viscosity produced from bisphenol-A and epichlorohydrin.

This resin is specifically designed and developed with very low levels of metal impurities such as sodium ion and iron ion impurity which interferes with the throwing power of the electro-deposition coatings and also the integrity and the anti-corrosion performance of these coatings. Epotec YD 128ED also has very low hydrolysable chlorine content.

The main application of epotec YD 128ED is for use in automobile primers viz. electro-deposition coatings, although, it can be used in other epoxy coatings after curing with appropriate curing agents.

**Applications**

- Electro-deposition coatings
- Solvent based and solvent free coatings
- Civil engineering and construction industry
- Automotive coatings
- Can & coil coatings
- Marine and Industrial protective coatings

**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	185 – 194 g/eq
Viscosity @25°C	ASTM D 2196-05	11,000 – 13,500 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.04 % max.
Sodium ion content	TEC-AS-C-10	3 ppm max.
Iron ion content	TEC-AS-C-11	1 ppm max.
Water content	ASTM E 203-01	0.05 % max.

**Typical properties \***

Epoxide Value	ASTM D 1652-04	5.15 – 5.40
Density @25°C	ASTM D 1475-98	1.16 g/ml
ECH content	TEC-AS-P-023	10 ppm max.

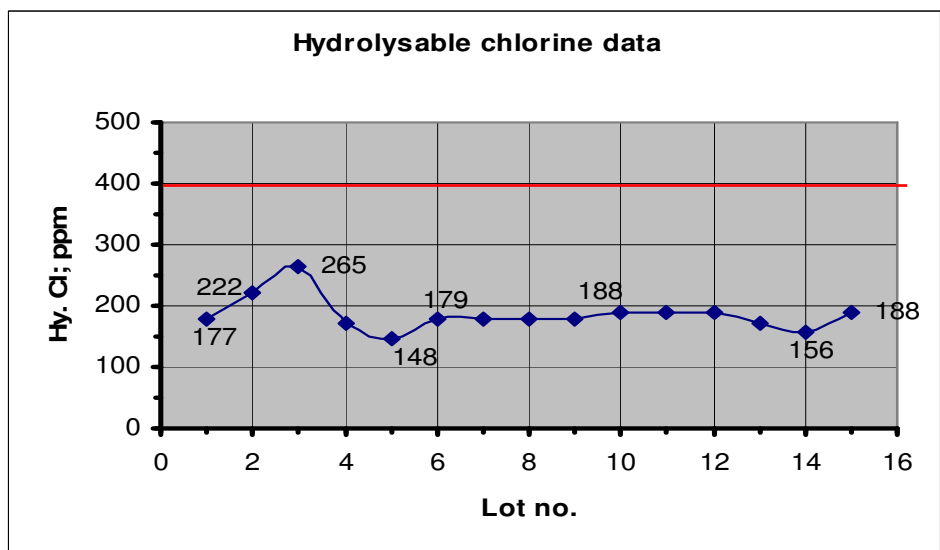
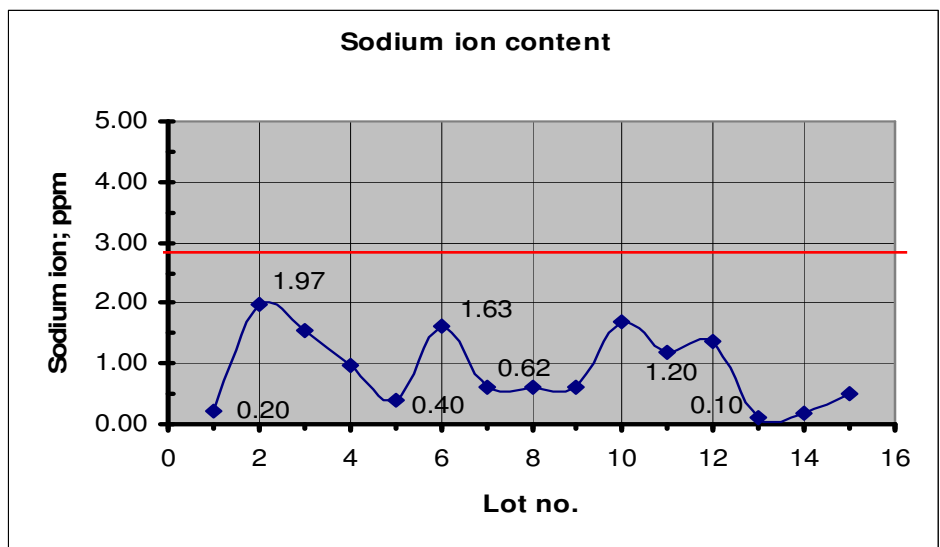
Total chlorine	ASTM D 4301-05	0.2 % max.
Non-volatile content	ASTM D 1259-06	100 %
Flash point	ASTM D 93	> 150°C

\* = Typical properties are indicated for information only

**General information**

The electrodeposition (ED) coat is the first coat applied on steel bodies of all modern vehicles at OEM site be it a bike, car or truck. In this sense it acquires significant importance in terms of corrosion protection. The metal impurities plays a very crucial role in determining the corrosion resistance of the ED film. We at Aditya Birla Epoxy Division fully understands this aspect and tries to maintain the metal impurities at bare minimum possible which is reflected in the below data.

**Epotec YD 128ED : Sodium ion and hydrolysable Chlorine SQC data (2009)**



**Packing**

Epotec YD 128ED is packed and delivered in steel drums, 235 kg per drum as a standard pack.  
Other packs are available upon request.

---

**Storage**

Epotec YD 128ED 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 128ED 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 the product for more instructions on safe storage and handling of epotec YD 128ED.

**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.

**For Additional Information, Please Contact:**

**Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)**

Mahatun Plaza Bldg., 16<sup>th</sup> Floor 888/167 Ploenchit Road, Lumpini, Bangkok 10330 Thailand.

Tel: (662) 2535031-3, Fax: (662) 2535030

Web Site: [www.adityabirlachemicals.com](http://www.adityabirlachemicals.com), E-Mail: [epoxymktg@adityabirla.com](mailto:epoxymktg@adityabirla.com)