


**Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)**
**EPOTEC YD 903HE**
**Description**

Epotec YD 903HE is a medium molecular weight solid epoxy resin designed especially for use in functional powder coatings although it can also be used in general purpose powder coatings. Epotec YD 903HE has molecular weight & viscosity in between epotec YD 903 & epotec YD 904. Epotec YD 903HE can also be used to produce epoxy ester by reacting with fatty acids in appropriate quantity in presence of an esterification catalyst.

**Applications**

- General purpose powder coatings
- Functional powder coatings
- Epoxy esters

**Specification**

Appearance	Visual	Clear, colourless to light yellow flakes
Colour*	ASTM D 1544-04	0.5 G max.
Epoxy Equivalent weight	ASTM D 1652-04	860 – 930 g/eq
Viscosity <sup>#</sup> @150°C	ASTM D 4287-00	70 – 102 P
Softening point	ASTM D 6090-99	104 – 110 °C

\* 40 % solids in Butyl Carbitol  
# Cone & Plate viscometer

**Typical properties \***

Epoxide Value	ASTM D 1652-04	1.07 – 1.16
Water content	ASTM E 203-01	0.25 % max.
Glass transition Temperature (T <sub>g</sub> )	DIN 11357	55°C min.
Relative Density	ASTM D 1298	1.16 - 1.18 g/cc
Bulk density	ASTM D 1895	0.50 - 0.65 MT/m <sup>3</sup>
Insolubles	TEC-AS-P-050	30 ppm max.

\* = Typical properties are indicated for information only

**Packing**

Epotec YD 903HE is packed and delivered in PE bags, 25 kg nett per bag as a standard pack.  
Other packs are available on request.

---

**Storage**

Epotec YD 903HE resin should be stored in normal ambient conditions, in closed container, at dry and cool place. Epotec YD 903HE resin should not be exposed to moisture, sunlight or other heating media to avoid agglomeration. Under proper storage conditions, it has a storage life of at least two years from the date of manufacturing. **It is advised to take proper precaution while emptying bags of epotec YD 903HE to avoid discharge of static electricity that might be present on the packing material surface. A good exhaust to avoid formation of a cloud of fines at discharge area is recommended.**

---

**Handling**

Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YD 903HE.

**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)