


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

Epotec YD 903 is a medium molecular weight solid epoxy resin designed especially for use in powder coatings. Epotec YD 903 has molecular weight & viscosity is between epotec YD 902 & epotec YD 904. This makes epotec YD 903 to give optimum performance in all types of powder finishes.

Applications

- Pure epoxy powder coatings
- Hybrid powder coatings
- Textured finish powder coatings

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	725 – 800 g/eq
Viscosity [#] @150°C	ASTM D 4287-00	3,800 – 6,000 cP
Softening point	ASTM D 6090-99	90 – 96 °C

* 40 % solids in Butyl Carbitol
Cone & Plate viscometer

Typical properties *

Epoxide Value	ASTM D 1652-04	1.25 – 1.38
Water content	ASTM E 203-01	0.5 % max.
Glass transition Temperature (T _g)	DIN 11357	50°C min.
Relative Density	ASTM D 1298	1.16 - 1.18 g/cc
Bulk density	ASTM D 1895	0.50 - 0.65 MT/m ³
Insolubles	TEC-AS-P-050	30 ppm max.

* = Typical properties are indicated for information only

General information *Glossy White Epoxy - Polyester hybrid Powder Coating*

RM	Qty
Epotec YD 903	30
CC 314	30
Benzoin	0.4
Modaflow 6000	0.7
TiO ₂ R 902	30
Blanc fixe	8.9

Properties	Value
Film thickness	60 μ
Gloss at 60°	> 90 GU
PCI flow rating	7

Packing

Epotec YD 903 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 903 resin should be stored in normal ambient conditions, in closed container, at dry and cool place. Epotec YD 903 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 903 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 903.

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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