


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YDPN 638
Description

Epotec YDPN 638 is a semi-solid phenol novolac based multifunctional epoxy resin. The high viscosity of this resin render it to be used as it is and invariably it is used in solution form or by blending with other lower viscosity epoxy resins.

Epotec YDPN 638 has functionality of ~ 3.6 in its original form. This higher functionality of epotec YDPN 638 imparts highly cross linked three dimensional network when cured. This high cross link density offers excellent chemical resistance and mechanical properties such as hardness and abrasion resistance. Epotec YDPN 638 can be used alone or can also be blended with other conventional epoxy resins to improve there chemical and thermal resistance characteristics. It exhibits better retention of chemical, mechanical and electrical resistance properties at elevated temperatures.

Applications

- Marine & Protective coatings
- Chemical resistant coatings
- Tank linings
- Adhesives
- Coil Coating
- Potting and Casting
- Composites

Specification

Appearance	Visual	Clear, semi-solid
Colour	ASTM D 1544-04	1.0 G max.
Epoxy Equivalent weight	ASTM D 1652-04	175 – 182 g/eq
Viscosity @52°C	ASTM D 3236-09	20,000 – 50,000 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.1 % max.

Typical properties *

Epoxide Value	ASTM D 1652-04	5.50 – 5.71
Density @25°C	ASTM D 1475-98	1.18 g/ml
Water content	ASTM E 203-01	0.1 % 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
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* = Typical properties are indicated for information only

Packing

Epotec YDPN 638 is packed and delivered in steel drums, 235 kg per drum as a standard pack.
Other packs are available on request.

Storage

Epotec YDPN 638 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.

Handling

Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YDPN 638.

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)**

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