**Description**

Epotec YDPN 638LV is a semi-solid phenol novolac based multifunctional epoxy resin which has lower viscosity than other epoxy novolacs of similar functionality such as epotec YDPN 638.

The higher functionality of epotec YDPN 638LV 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 638LV can be used alone or can also be blended with other conventional epoxy resins to improve there chemical and thermal resistance characteristics.

**Applications**

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

**Specification**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Visual Clear, semi-solid</td>
</tr>
<tr>
<td>Colour</td>
<td>ASTM D 1544-04 1.0 G max.</td>
</tr>
<tr>
<td>Epoxy Equivalent weight</td>
<td>ASTM D 1652-04 171 – 182 g/eq</td>
</tr>
<tr>
<td>Viscosity @52°C</td>
<td>ASTM D 3236-09 20,000 – 30,000 cP</td>
</tr>
<tr>
<td>Hydrolysable Chlorine</td>
<td>ASTM D 1726-03 0.1 % max.</td>
</tr>
</tbody>
</table>

**Typical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxide Value</td>
<td>ASTM D 1652-04 5.50 – 5.71</td>
</tr>
<tr>
<td>Density @25°C</td>
<td>ASTM D 1475-98 1.18 g/ml</td>
</tr>
<tr>
<td>Water content</td>
<td>ASTM E 203-01 0.1 % max.</td>
</tr>
<tr>
<td>ECH content</td>
<td>TEC-AS-P-023 10 ppm max.</td>
</tr>
<tr>
<td>Non-volatile content</td>
<td>ASTM D 1259-06 100 %</td>
</tr>
<tr>
<td>Flash point</td>
<td>ASTM D 93 &gt; 150°C</td>
</tr>
</tbody>
</table>

* = Typical properties are indicated for information only
<table>
<thead>
<tr>
<th>Packing</th>
<th>Epotec YDPN 638LV is packed and delivered in steel drums, 225 kg per drum as a standard pack. Other packs are available on request.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Epotec YDPN 638LV 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.</td>
</tr>
<tr>
<td>Handling</td>
<td>Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YDPN 638LV.</td>
</tr>
</tbody>
</table>

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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