EPALLOY® 8240 Low-Viscosity Epoxy Phenol Novolac Resin

Product Description

EPALLOY® 8240 resin is a very low-viscosity epoxy phenol novolac resin with low hydrolyzable chloride content and a high degree of reactivity. It is non-crystallizing and compatible with all standard curatives and most resin systems and solvents. It has an epoxy functionality of 2.35.

Formulations based on EPALLOY® 8240 resin exhibit outstanding chemical resistance. EPALLOY® 8240 resin is recommended for use in room-temperature cure, 100%-solids coatings and trowelable flooring formulations. Improvements in resistance to concentrated acids and aggressive solvents will occur. Blends of EPALLOY® 8240 resin with standard bisphenol-A based resins are an excellent way to impart resistance to crystallization. These blends will exhibit superior cured properties compared to conventional diluted DGEBA resins.

Applications

- Primary flooring resin providing improved chemical resistance
- Chemical-resistant tank linings
- Viscosity modifier for epoxy novolacs
- High-temperature-resistant encapsulants/adhesives
- Conductive adhesives
- Prepregs and composites

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>EPALLOY® 8240</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 25°C, cP</td>
<td>6,000 – 7,100</td>
</tr>
<tr>
<td>Epoxide Equivalent Weight, g/eq</td>
<td>164 – 176</td>
</tr>
<tr>
<td>Gardner Color, max</td>
<td>3</td>
</tr>
<tr>
<td>Residual Epichlorohydrin, max ppm</td>
<td>10</td>
</tr>
<tr>
<td>Hydrolyzable Chloride, max %</td>
<td>0.10</td>
</tr>
<tr>
<td>Weight per Gallon at 25°C, lb.</td>
<td>10 ± 0.1</td>
</tr>
<tr>
<td>Flash Point, COC, °C (°F)</td>
<td>&gt;250 (&gt;482)</td>
</tr>
</tbody>
</table>
Storage

EPALLOY® 8240 resin should be stored in a dry place, in the sealed original containers, at temperatures between +2°C and +40°C (+35.6°F and +104°F). Under these storage conditions, the products have a shelf life of 24 months (from date of manufacture). The products should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest SDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!
Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY
Important Legal Notice

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer’s documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman’s knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

EPALLOY® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

Copyright © 2020 Huntsman International LLC.

Customer Support Center:

Huntsman Corporation
10003 Woodloch Forest Dr
The Woodlands, TX 77380
Tel: +1 (888) 564-9318
Fax: +1 (281) 719-6416
www.huntsman.com