

**Advanced Materials****Phenoxy PK™HH #**

CATINGS INDUSTRY SYSTEMS

**DATA SHEET****Phenoxy PK™HH is a high molecular Phenoxy resin.**

<b>Applications</b>	<ul style="list-style-type: none"> <li>• Thermoset Coatings</li> <li>• Single Pack Epoxy Coatings</li> <li>• Inks and Paints</li> <li>• Adhesives/Sealants</li> <li>• Composites</li> <li>• Electronics</li> </ul>		
<b>Properties</b>	<p>Phenoxy PK™HH has a high viscosity compared to most phenoxy resins. Phenoxy resins (polyhydroxyethers) are tough, ductile, amorphous, thermoplastic polymers having excellent thermal stability, adhesive strength, and vapor barrier properties. Phenoxy resins may be crosslinked by reacting its hydroxyl functional groups with isocyanates, melamine resins, or phenolic resins. Crosslinked phenoxy resins exhibit excellent chemical resistance, hardness, and adhesion on many substrates including steel, aluminum, glass, and carbon fibers, and plastics such as nylon and polyester (PET).</p> <p>Phenoxy PK™HH may also be formulated in single-pack epoxies containing latent hardeners, such as dicyandiamide, providing improved toughness and adhesive strength on substrates when properly cured. Phenoxy PK™HH is soluble in many polar, aprotic solvents such as MEK, cyclohexanone, and glycol ethers.</p>		
<b>Key data</b>	<b>Specified key data</b>		
	<b>Non-Volatiles</b>	<b>98-100</b>	<b>[%]</b>
	<b>Viscosity @ 25 °C; (20% solution in cyclohexanone)</b>	<b>525-715</b>	<b>[mPa s]</b>
	<b>Color (20% solution in cyclohexanone, max.)</b>	<b>200</b>	<b>[APHA]</b>
	<b>Haze, (20% solution in cyclohexanone, max.)</b>	<b>0-15</b>	<b>[%]</b>
	<b>Specified key data are individually checked throughout and guaranteed.</b>		
	<b>Typical key data</b>		
	Molecular Weight (Weight Average)	52 000	[Daltons]
	OH Equivalent Weight	280	[g/equiv.]
	As-supplied form	Solid	
	Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	2 years at least	
	Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapours	
	Disposal	regular procedures approved by local authorities	
	<b>Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.</b>		

# In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

<b>Storage</b>	Phenoxy PK™HH-25 B should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40°. The product should not be stored exposed to direct sunlight.
<b>Handling precautions</b>	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets.

**Huntsman Advanced Materials**  
(Switzerland) GmbH  
Klybeckstrasse 200  
4057 Basel  
Switzerland

Tel: +41 (0)61 299 11 11  
Fax: +41 (0)61 299 11 12

[www.huntsman.com/advanced\\_materials](http://www.huntsman.com/advanced_materials)  
Email: [advanced\\_materials@huntsman.com](mailto:advanced_materials@huntsman.com)



Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the buyer. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

While all the information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE. IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

The behaviour of the products referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which are not known to Huntsman Advanced Materials. It is the responsibility of the user to evaluate the manufacturing circumstances and the final product under actual end-use requirements and to adequately advise and warn purchasers and users thereof.

Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Advanced Materials containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent on manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sale of Huntsman Advanced Materials LLC or of its affiliated companies including without limitation, Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., and Huntsman Advanced Materials (Hong Kong) Ltd. Huntsman Advanced Materials is an international business unit of Huntsman Corporation. Huntsman Advanced Materials trades through Huntsman affiliated companies in different countries including but not limited to Huntsman Advanced Materials LLC in the USA and Huntsman Advanced Materials (Europe) BVBA in Europe.

[ Phenoxy PK ] is a registered trademark of Huntsman Corporation or an affiliate thereof.

Copyright © 2021 Huntsman Corporation or an affiliate thereof. All rights reserved.