

## PHENOXY PK™ HB Resin

### Product Description

PHENOXY PK™HB Resin has a low 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). PHENOXY PK™HB 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™HB is soluble in many polar, aprotic solvents such as MEK, cyclohexanone, and glycol ethers.

### Applications

- Thermoset Coatings
- Single Pack Epoxy Coatings
- Inks and Paints
- Adhesives/Sealants
- Composites
- Electronics

### Specified Key Properties

Property	Value
Color*, APHA	200
Solids, %	98
Viscosity* (Brookfield) at 25 °C, cP	180-280
Molecular Weight (weight average), Daltons	32,000
OH Equivalent Weight (g/equivalent)	277
Haze*, % (max)	15

\*20% solution in cyclohexanone

## Regulatory Status

TSCA (USA), DSL (Canada), PICCS (Philippines), AICS (Australia), ENCS/MITI (Japan), IECSC (China). Polymer Exempt : EINECS (EU)

## Storage

**PHENOXY PK™ HB** should be stored in a dry place, in its sealed original container, at temperatures between **0°C - 40°C (32°F - 104°F)**. Under these storage conditions the product has a shelf life of **10 years** from date of manufacture. The product should not be exposed to direct sunlight.

Phenoxy resins may absorb water, ~1% by weight, if exposed for long periods of time to the atmosphere. Pellets can be dried at 80 - 90 °C if desired.

## 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 MSDS 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**

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