

PHENOXY PK™ HP-80 Resin

Product Description

PHENOXY PK™ HP-80 is a micronized powder-grade Phenoxy™ resin with a particle size of approximately 70 microns. Phenoxy™ resins (poly hydroxyl ethers) are tough, ductile, amorphous polymers having excellent thermal stability, adhesion and cohesion strength, and excellent vapor barrier properties. Phenoxy resins also react with cross-linkers like Isocyanates, phenolic and melamine resins along the backbone hydroxyl groups. PKHP-80 provides for ease of incorporation into liquid resins due to its high surface area; recommended levels of PKHP-80 incorporated into epoxy resins are 5 to 25% depending on the desired mix viscosity. Single-pack epoxy formulations containing PKHP-80 and latent hardeners such as dicyandiamide will yield improve toughness and adhesive strength when properly cured on many substrates including steel, aluminum, glass and carbon fibers, and plastics such as nylon and polyester (PET).

Applications

- Single-Pack Epoxy/DICY Coatings
- Adhesives and Sealants
- Composites

Typical Properties

Property	Value
Solids, %	98
Color APHA*, max	200
Viscosity (Brookfield)* at 25 °C, Cp	525-715
Haze*, %	15

*20% solution in cyclohexanone

Regulatory Status

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

Storage

PHENOXY PK™ HP-80 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 data of manufacture. The product 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 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

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