InChemRez Phenoxy PKCP-80
Caprolactone Modified Phenoxy Resin

InChemRez Phenoxy PKCP-80 is a 100% NV solid-grade Phenoxy resin with caprolactone grafting modification on the backbone hydroxyls to provide for internal plasticization and the introduction of pendant primary hydroxyl groups.

Phenoxy resins (polyhydroxyethers) are tough, ductile, amorphous polymers having excellent thermal stability, adhesive and cohesive strength, and excellent vapor barrier properties. Phenoxy resins also react with crosslinkers like isocyanates, phenolic & melamine resins along the backbone hydroxyl groups. PKCP-80 provides for improved reactivity due to the insertion of primary hydroxyls through the grafting modification.

PKCP-80 has a moderately low glass transition temperature which imparts improved solids/viscosity ratios in common solvents like MEK. Solutions of PKCP-80 can be blended with unmodified Phenoxy resin solutions to obtain intermediate levels of reactivity with crosslinkers & hardeners.

APPLICATIONS
- Two-Component PUR Coatings
- Adhesives & Sealants
- Single-Pack Low Bake Coatings
- Cast Elastomers
- Powder Coatings

InChemRez Phenoxy PKCP-80 Safety and Handling

InChemRez Phenoxy PKCP-80 is sold in 55-pound (25 kg) net weight lined pails. The resin may be stored at normal temperatures for up to one year. Avoid freezing and avoid temperatures above 110ºF.

Ground all containers when transferring PKCP-80 especially in the presence of volatile materials to avoid sparks that may be caused by static build-up.

Avoid contact with skin, eyes, and the breathing of any dust associated with PKCP-80. Wear OSHA standard respirators, gloves, and other appropriate PPE when handling large quantities of PKCP-80.

Consult the product MSDS for additional information on properties, hazards, and handling.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Percent Solids</td>
<td>97+%</td>
</tr>
<tr>
<td>Tg (DSC)</td>
<td>30°C</td>
</tr>
<tr>
<td>Mw (daltons)</td>
<td>39,000</td>
</tr>
<tr>
<td>OH # (primary)</td>
<td>36 - 40</td>
</tr>
<tr>
<td>OH # (total)</td>
<td>155 - 160</td>
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</tbody>
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