Technical Data Sheet: Poly bd® 605E

EPOXIDIZED HYDROXYL TERMINATED POLYBUTADIENE RESIN

DESCRIPTION
Poly bd® 605E is a multifunctional, hydroxy terminated, epoxidized polybutadiene resin. Poly bd 605E brings flexibility and water resistance to urethane formulations and impact resistance and flexibility to epoxy formulations. The epoxy groups will cure with lewis acids or anhydrides.

PRODUCT HIGHLIGHTS
Most highly epoxidized Poly bd® resin
Compatibility with other epoxy resins
Low viscosity
UV cationic cure
Multiple functionality

PERFORMANCE PROPERTIES
Flexible epoxy systems
Hydrophobicity
Aqueous acid and base resistance
Adhesion to a variety of substrates

SUGGESTED APPLICATIONS
Adhesives
Coatings, electronics
Flexibilization of epoxy systems
Polymer Modification
Polyurethane, foams
Polyurethane, coatings
Polyurethane, adhesives
Polyurethane, sealants
Polyurethane, elastomers

Poly bd® 605E
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Equivalent weight</td>
<td>300</td>
</tr>
<tr>
<td>Epoxy Value, meq/g</td>
<td>3.5</td>
</tr>
<tr>
<td>Hydroxyl Value, meq/g</td>
<td>1.74</td>
</tr>
<tr>
<td>Molecular Weight, M&lt;sub&gt;n&lt;/sub&gt;</td>
<td>1450</td>
</tr>
<tr>
<td>Oxirane Oxygen, %</td>
<td>5.5</td>
</tr>
<tr>
<td>Specific Gravity @ 23 °C</td>
<td>1.01</td>
</tr>
<tr>
<td>Viscosity, cps @ 30 °C</td>
<td>25000</td>
</tr>
<tr>
<td>Water, wt%</td>
<td>0.05</td>
</tr>
</tbody>
</table>

Regulatory Notice
Poly bd® 605E is regulated by the United States Department of Commerce and may not be exported without license from that organization.

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