PARALOID™ B-44 Solid Grade Thermoplastic Acrylic Resin
For Treated Metal, Copper, Zinc, Brass, Treated Aluminum, Concrete Floors, and Certain Plastics

**Introduction**

PARALOID™ B-44 Solid Grade Thermoplastic Acrylic Resin provides an outstanding combination of hardness, flexibility, and adhesion to various substrates. It also permits wider latitude in formulating in solvents that are suitable for specific applications. The resin is slightly softer and more flexible than PARALOID™ A-21 Solid Grade Thermoplastic Acrylic Resin and has excellent adhesion to various substrates. For some applications, one can blend PARALOID™ B-44 Solid Grade Thermoplastic Acrylic Resin with PARALOID A-21 Solid Grade Thermoplastic Acrylic Resin in order to achieve a desired balance of film hardness and flexibility.

It is well suited for a variety of applications, including treated metal, copper, zinc, brass, treated aluminum, concrete floors, and certain plastics.

**Solubility**

PARALOID™ B-44 Solid Grade Thermoplastic Acrylic Resin is soluble in a variety of solvents including toluene, xylene, MEK, and some esters and glycol ethers such as methyl acetate, n-butyl acetate, PM Acetate and propyl acetate. However, PARALOID™ B-44 Solid Grade Thermoplastic Acrylic Resin is insoluble in most alcohols and aliphatic solvents, such as isopropyl alcohol, VM&P Naphtha and mineral spirits.

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Values</th>
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<tbody>
<tr>
<td>Physical Form</td>
<td>Pellets</td>
</tr>
<tr>
<td>Chemical Composition</td>
<td>MMA/EA</td>
</tr>
<tr>
<td>Tg, °C</td>
<td>60</td>
</tr>
<tr>
<td>Bulk Density, lbs/gal, (25°C)</td>
<td>9.4</td>
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<tr>
<td>Solubility Parameter</td>
<td>9.4</td>
</tr>
<tr>
<td>Ultimate Hardness of Clear films, KHN</td>
<td>15–16</td>
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</tbody>
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1. These properties are typical but do not constitute specifications.
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Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Store products in tightly closed original containers at temperatures recommended on the product label.

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user’s responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

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