Elvamide® 2669, the first in this series, is a solid acrylic bead copolymer which can be dissolved in slightly alkaline aqueous systems. This distinct capability makes the product particularly suitable for end-uses where solvent emissions must be minimized or where the substrate may be sensitive to organic solvents. Clear, hard, abrasion resistant films and coatings may be obtained due to the poly-methyl methacrylate backbone of this specially modified resin. These films show good adhesion to numerous substrates such as metal and plastic.

The water-soluble characteristics of this polymer allow for its use in areas where temporary protection is desirable. Dilute ammoniated solutions may be used to remove the film. If a more permanent coating is required, formulations with zinc oxide may be prepared to enhance durability and improve water resistance. Elvamide® 2669 further exhibits good solubility in many ketones and esters as well as glycol ethers. Plasticizers such as butyl benzyl phthalate may be added to enhance flexibility and flow properties.

Lucite International also has the capability to produce other acrylic resins with different balances of water-soluble characteristics and parameters, which meet distinct requirements such as variations in, pigment loading for ink applications. Where sufficient opportunities exist, the customer will find Lucite International to be a willing partner in engineering resins that meet the customer's specific requirements.

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>1.2</td>
</tr>
<tr>
<td>Density (lb. resin/gal. resin)</td>
<td>9.2¹</td>
</tr>
<tr>
<td>Inherent Viscosity</td>
<td>0.32</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>60M</td>
</tr>
<tr>
<td>Glass Transition (°C)</td>
<td>70</td>
</tr>
<tr>
<td>Acid Number</td>
<td>124</td>
</tr>
<tr>
<td>Gardner-Holdt viscosity</td>
<td>Z-6²</td>
</tr>
</tbody>
</table>

¹ Calculated from density (ASTM D-1475) of 20% solutions of Elvamide® resins in methyl ethyl ketone
² Measured in water, when neutralized as recommended in the formulating guidelines

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