BOMAR™ BR-3641AJ is an aliphatic polyether urethane acrylate with a high molecular weight and theoretical 1.3 functionality. Films formulated with BR-3641AJ are highly flexible, elastomeric, and tacky. It is excellent as an adhesion promoter or reactive tackifier. It is a perfect choice for optically clear UV-PSAs.

**UNCURED PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, cP (60°C)</td>
<td>10,000</td>
</tr>
<tr>
<td>Pt-Co (APHA) Color</td>
<td>&lt;100</td>
</tr>
<tr>
<td>Refractive Index (22°C)</td>
<td>1.46</td>
</tr>
<tr>
<td>Density, g/cm³ (25°C)</td>
<td>1.06</td>
</tr>
</tbody>
</table>

**TYPICAL FORMULATIONS**

<table>
<thead>
<tr>
<th>Test Formulation Name</th>
<th>I30</th>
<th>I50</th>
<th>TP50</th>
<th>H50</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR-3641AJ</td>
<td>70</td>
<td>50</td>
<td>70</td>
<td>50</td>
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<tr>
<td>IBOA</td>
<td>30</td>
<td>50</td>
<td></td>
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<tr>
<td>2-PEA</td>
<td></td>
<td>30</td>
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<td></td>
</tr>
<tr>
<td>HDDA</td>
<td></td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMPTA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Omnirad™ 481</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Viscosity, 25°C</td>
<td>9,500</td>
<td>2000</td>
<td>2,400</td>
<td>1,500</td>
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- Brookfield –CAP2000+ @25°C

**CURED MECHANICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>I30</th>
<th>I50</th>
<th>TP50</th>
<th>H50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength, psi</td>
<td>240</td>
<td>640</td>
<td>540</td>
<td>560</td>
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<tr>
<td>Elongation, %</td>
<td>2,900</td>
<td>4,600</td>
<td>13</td>
<td>9</td>
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<tr>
<td>Elastic Modulus, ksi</td>
<td>0.01</td>
<td>0.3</td>
<td>19</td>
<td>17</td>
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<tr>
<td>Durometer Hardness</td>
<td>&lt;10A</td>
<td>72A</td>
<td>25D</td>
<td>26D</td>
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<tr>
<td>MEK Double Rubs (#)</td>
<td>18</td>
<td>20</td>
<td>10</td>
<td>10</td>
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</tbody>
</table>

$T_g$ (DMA) = -50°C; Peak tan delta; cured with 2 phr of Irgacure® 481

**FORMULATED ADHESION**

<table>
<thead>
<tr>
<th>Substrate</th>
<th>I30</th>
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<th>TP50</th>
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</thead>
<tbody>
<tr>
<td>ABS</td>
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<td>Aluminum</td>
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<tr>
<td>Cold Rolled Steel</td>
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<tr>
<td>Glass</td>
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<td>✔</td>
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<tr>
<td>Stainless Steel</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Recommended ✔✔ Highly Recommended ✔✔✔ Strongly Recommended ✔✔✔✔