**Ricobond® Maleinized Polybutadiene**

**Product Description**
The Ricobond® maleinized polybutadiene family of products are used to promote adhesion to various substrates in peroxide and sulfur cured systems. When used in peroxide or sulfur cured systems these materials also will act as oils (process aids) and will crosslink into the matrix rendering them non-extractable.

**Benefits/Features**
- The polybutadiene backbone renders the final reaction product hydrophobic.
- The liquid nature allows for ease of mixing.
- The solubility parameter allows for plasticizing of blocked copolymers such as SBS and SIS.
- The high vinyl nature increases crosslink density.
- Improves hardness, modulus and oil swell resistance.
- Improves adhesion to polyesters, aramids, and metals when added to the compound.

**Typical Uses**
- Rubber (belts, hoses, molded goods)
- Plastics
- Printing Plates
- Adhesives

**General Description**
(not to be considered as a specification)
Appearance: Amber liquid
Chemical Description: Maleinized Polybutadiene
Molecular Weight (Mn): 1700 - 5600 g/mole
Viscosity: 48000 @ 25°C - 140000 @ 55°C

**Handling**
To insure best performance, store at room temperature or below. Avoid moist conditions as this will develop a skin on the neat material. Do not heat with band heaters as hot spots may cause the material to crosslink and auto-accelerate.

**Ricobond® Maleinized Polybutadiene Standard Line of Products**

<table>
<thead>
<tr>
<th>Property</th>
<th>1031</th>
<th>1731</th>
<th>2031</th>
<th>1756</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight (Mn)</td>
<td>5000</td>
<td>5400</td>
<td>5600</td>
<td>2500</td>
<td>g/mole</td>
</tr>
<tr>
<td>Viscosity (@ 25 °C)</td>
<td>48000</td>
<td>50000*</td>
<td>100000**</td>
<td>140000**</td>
<td>cps</td>
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<tr>
<td>Recommended Cure System</td>
<td>Sulfur</td>
<td>Sulfur</td>
<td>Sulfur</td>
<td>Peroxide</td>
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<tr>
<td>Maleic Anhydride</td>
<td>10</td>
<td>17</td>
<td>20</td>
<td>17</td>
<td>%</td>
</tr>
</tbody>
</table>

* at 45°C
** at 55°C

When using Ricobond® in sulfur cured system, increase the sulfur by 20% and add 3phr of TBBS.

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