CLS3060 CLR

Description
CLS3060 CLR is a transparent, self-bonding, two-component silicone rubber for use in liquid injection molding to produce high performance elastomeric parts. CLS3060 CLR is clear, but easily pigmentable. CLS3060 CLR offers a convenient 1:1 mix ratio, high tensile strength, and rapid cure time depending upon part size, configurations and molding temperature.

Key Features and Benefits
- Primer-less adhesion to many substrates
- Maximum adhesion immediately after de-molding
- High clarity for excellent visibility
- High temperature stability
- FDA 21CFR177.2600 (Rubber Articles Intended for Repeated Use) compliant
- Good dielectric and mechanical properties
- Easy pigmentable due to translucent color

Typical Physical Properties

<table>
<thead>
<tr>
<th>Uncured Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cure Rate</strong> (Monsanto Rheometer MDR 2000 @177°C or 350°F; w/ Mylar Sheets)</td>
</tr>
<tr>
<td>Torque, maximum, in/lb</td>
</tr>
<tr>
<td>Peak Rate, in/lb/min</td>
</tr>
<tr>
<td>T-2, seconds</td>
</tr>
<tr>
<td>T-90, seconds</td>
</tr>
<tr>
<td>----------------</td>
</tr>
</tbody>
</table>

### Cured Properties

**ASTM slabs cured 15 min @ 177°C (350°F)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.12</td>
</tr>
<tr>
<td>Hardness, Shore A durometer</td>
<td>59</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1,600</td>
</tr>
<tr>
<td>Elongation, %</td>
<td>500</td>
</tr>
<tr>
<td>100% Modulus, psi</td>
<td>310</td>
</tr>
<tr>
<td>Tear Die B, ppi</td>
<td>190</td>
</tr>
</tbody>
</table>

### Potential Applications

- Sports goggles
- Respiratory masks
- Health care equipment
- Sealing elements & membranes
- Coating metal rolls

### Processing Recommendations

Ready-to-use mixtures (of the components A and B) are fed directly to the injection-molding machine from the original containers by means of a metering and mixing unit. The mixture, consisting of the two components in the ratio 1:1, is injected into the heated mold. At mold temperatures of 170 - 230°C, the addition-crosslinking silicone rubber typically vulcanizes, without any dissociation products, within a few seconds. High curing speed and easy demolding can help enable fully automated production of a large number of articles in short cycle times.

### Patent Status

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