CLS5000

Description
CLS5000 is a transparent, self-bonding, two-component silicone rubber for use in low temperature curing liquid injection molding in the production of high performance elastomeric parts. CLS5000 is clear, but easily pigmentable. CLS5000 offers a convenient 1:1 mix ratio, high tensile strength, and high tear strength. Cure time is rapid depending upon part size, configurations and molding temperature.

Key Features and Benefits
- High clarity for excellent visibility
- Excellent tear strength
- Convenient 1:1 mix ratio for use with automatic equipment
- Rapid cure time depending upon part size, configuration and molding temperature
- Compatible with a wide variety of thermoplastics for injection molding

Typical Physical Properties

<table>
<thead>
<tr>
<th>Uncured Properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cure Rate (Monsanto Rheometer MDR 2000 @177°C or 350°F; w/ Mylar Sheets)</td>
<td></td>
</tr>
<tr>
<td>Torque, maximum, in/lb</td>
<td>29.09</td>
</tr>
<tr>
<td>Peak Rate, in/lb/min</td>
<td>163.9</td>
</tr>
</tbody>
</table>
T-2, seconds | 5.4
---|---
T-90, seconds | 25

### Cured Properties

**ASTM slabs cured 15 min @ 177\(^\circ\)C (350\(^\circ\)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>67</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1,591</td>
</tr>
<tr>
<td>Elongation, %</td>
<td>458</td>
</tr>
<tr>
<td>100% Modulus, psi</td>
<td>575</td>
</tr>
<tr>
<td>Tear Die B, ppi</td>
<td>261</td>
</tr>
</tbody>
</table>

### Regulatory Compliance

- A representative sample of an analogous product to CLS 5000 met the requirements of USP Class VI and ISO 10993 under Good Laboratory Practices (GLP).
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use\(^{(1)}\)

\(^{(1)}\) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600, under their specific manufacturing procedures

### Patent Status

Standard copy to come

### Product Safety, Handling and Storage

Standard copy to come

### Limitations

Standard copy to come

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Contact Information
For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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