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>

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T-2, seconds 5.4
T-90, seconds 25

Cured Properties
ASTM slabs cured 15 min @ 177ºC (350ºF)

<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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