

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

<u>Uncured Properties</u>	
Cure Rate (Monsanto Rheometer MDR 2000 @177°C or 350°F; w/ Mylar Sheets)	
Torque, maximum, in/lb	16.3
Peak Rate, in/lb/min	124
T-2, seconds	4.8
T-90, seconds	17.4

Cured Properties	
<u>ASTM slabs cured 15 min @ 177°C (350°F)</u>	
Color	Clear
Specific Gravity	1.12
Hardness, Shore A durometer	59
Tensile Strength, psi	1,600
Elongation, %	500
100% Modulus, psi	310
Tear Die B, ppi	190

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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Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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