

## 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>  |      |
|--|------|
| <b>Cure Rate</b> (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                        |       |
|---|-------|
| ASTM slabs cured 15 min @ 177°C (350°F) |       |
| 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

여기에 포함된 어떠한 내용도 관련 특허가 없음을 의미하거나 특허 소유자의 허가 없이 특허에서 다루는 발명을 실행하기 위한 허가, 유도 또는 권고를 구성하는 것으로 해석되어서는 안됩니다.

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**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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