

CLS5000

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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

Uncured Properties	
Cure Rate (Monsanto Rheometer MDR 2000 @177°C or 350°F; w/ Mylar Sheets)	
Torque, maximum, in/lb	29.09
Peak Rate, in/lb/min	163.9
T-2, seconds	5.4
T-90, seconds	25
Cured Properties	
ASTM slabs cured 15 min @ 177°C (350°F)	
Color	Clear
Specific Gravity	1.12
Hardness, Shore A durometer	67
Tensile Strength, psi	1,591
Elongation, %	458
100% Modulus, psi	575

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

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.

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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