

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
Tear Die B, ppi	261

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

Contact Information

Email

commercial.services@momentive.com**Telephone**

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

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