

SILCOOL™ TIA215G

Product Description

SILCOOL™ TIA215G is a two-component, low viscosity heat curable silicone rubber designed for thermally conductive potting applications. TIA215G quickly cures with exposure to heat to form an elastic, thermally conductive rubber that helps relieve stress on critical electronic components.

Key Features and Typical Benefits

- Soft, elastomeric rubber properties
- Easy to use 1:1 mixing ratio by weight or volume
- Outstanding stress relief
- Fast cure with exposure to heat
- Good thermal conductivity
- Resistance to temperature extremes
- Non corrosive to metal

Typical Physical Properties

Uncured Properties (23°C)		TIA215G(A)	TIA215G(B)
Appearance		Gray	White
Viscosity* ¹	Pa·s	8.5	6.5
Mix ratio by weight		100:100	
Viscosity after mixing* ¹	Pa·s	7.5	
Workable life@ 23°C	min	30	
Cure condition (70 °C)	min	30	
Cure condition (23 °C)	h	24	
Cured Properties (30min@70°C)			
Appearance		Gray	
Density	g/cm ³	2.15	
Hardness	Shore E	60	
Thermal conductivity* ²	W/(mK)	1.5	
Volume resistivity	M Ω ·m	2x10 ⁶	
Dielectric strength	kV/mm	18	

*1: Brookfield LVDV 64#, 60rpm *2: Hot wire method

Typical properties are average data and are not to be used as or to develop specifications.

General Considerations for Use

Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. It is recommended that a preliminary test be performed to determine the compatibility.

Part A and B each should be thoroughly mixed.

Deaerated the mixture to remove air entrapped during mixing.

Wear eye protection and protective gloves as required while handling the product.

Adequate ventilation must be maintained in the workplace at all times.

Packaging

180KG_Drum

18KG_Pail

Storage

Store in cool dry place out of direct sunlight.

Keep out of the reach of Children.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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

Email

commercial.services@momentive.com

Telephone

Americas

+1 800 295 2392

Toll free*

+704 805 6946

Direct Number

Latin America

Brazil

+55 11 4534 9650

Direct Number

EMEA- Europe, Middle East, Africa & India

Europe

+390510924300

Direct number

ASIA PACIFIC

China

800 820 0202

Toll free

+86 21 3860 4892

Direct number

*All American countries

Mexico

+52 55 2169 7670

Direct Number

India, Middle East & Africa

+ 91 44 71212207

Direct number*

Japan

+81 3 5544 3111

Direct number

*All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka.

Korea

+82 2 6201 4600

Direct number

South East Asia, Australia & New
Zealand
+60 3 9206 1543
Direct number*

*South East Asia countries (Malaysia,
Singapore, Thailand, Indonesia,
Vietnam, Philippines, Cambodia,
Myanmar / other countries located in
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260 Hudson River Road Waterford,
NY 12188 USA
momentive.com

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