



Technical Data Sheet

XIAMETER™ RBB-2003-50 Silicone Rubber

50 Shore A, translucent, good demoulding, suitable for Pt or peroxide cure system, uncatalyzed silicone rubber base

Features & Benefits

- 50 Shore A Hardness
- Good translucent
- Good demoulding
- Suitable for Pt or peroxide cure system
- Formulated to meet BfR Recommendation XV and FDA 21 CFR 177.2600

Applications

- Cake mold and kitchen ware
- Extrusion, tubing and profiles
- Molding parts
- Wire & cable
- Calendering and sheeting

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications. Properties obtained using 1.0 phr SILASTIC™ RC-4 50P FD Rubber Additive on 2 mm thick slabs, press cured 10 minutes at 170°C, and post cured 4 hours at 200°C.

Formulation:

XIAMETER™ RBB-2003-50 Silicone Rubber, phr	100
SILASTIC RC-4 50P FD Rubber Additive, phr	1

ASTM ¹	Property	Unit	Result
	Appearance		Translucent
D792	Specific Gravity		1.14
D2240	Durometer	Shore A	53
D412	Tensile Strength	MPa	8.5
D412	Elongation	%	370
D624 DIE B	Tear Strength	kN/m	16
D395	Compression set after 22 hours at 177°C (351°F)	%	25

1. ASTM: American Society for Testing and Materials.
Materials were tested according to Dow Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard listed above. Copies of CTMs are available on request.

How To Use

Vulcanization

XIAMETER RBB-2003-50 Silicone Rubber requires the addition of a vulcanizing agent. SILASTIC RC-4 50P FD Rubber Additive and Pt catalysts are recommended for molding and extrusion.

Pigmentation

This silicone rubber base can be pigmented with a range of XIAMETER™ Pigment Master Batches.

Property Modification

The physical properties of this product can be modified using a range of Dow additives.

This silicone rubber base can be blended with other durometer silicone rubber bases to produce materials with intermediate durometers and properties.

Food Contact

This product has been formulated to meet applicable food contact regulations and recommendations (for example: FDA 21.CFR 177.2600 and BfR Recommendation XV).

Note: It remains the manufacturers' responsibility to test the final product.

For further details on the suitability of this product for food contact applications, please refer to the Food Regulatory Profile.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life And Storage

When stored at or below 32°C in the original unopened containers, this product has a usable life of 9 months from the date of production.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local representative.

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XIAMETER™ RBB-2003-50 Silicone Rubber

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<http://www.xiameter.com>

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