



Technical Data Sheet

XIAMETER™ RBB-6300-50 Base

Flame retardant, uncatalyzed Silicone Rubber Base

Features & Benefits

- Flame retardant (UL-94 V-0 with and without pigments)

Applications

- Rubber parts for home electric appliances
- Anode caps

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
As supplied			
CTM 0176	Appearance		White
JIS K 6249	Plasticity	mm/100	258
As cured			
JIS K 6249	Density	g/cm ³	1.37
JIS K 6249	Hardness, JIS type A		55
JIS K 6249	Tensile Strength, JIS#3	MPa	7.2
JIS K 6249	Elongation, JIS#3	%	470
JIS K 6249	100% Modulus, JIS#3	MPa	2.1
JIS K 6249	Tear Strength, Crescent	N/mm	12
JIS K 6249	Tear Strength, Angle	N/mm	26
JIS K 6249	Compression set (180°C / 22 hours)	%	26
JIS K 6255	Rebound	%	57
JIS K 6249	Linear Shrinkage (disc) ²	%	2.7
JIS K 6249	Volume Resistivity	Ohm.cm	5.0 E+16
JIS K 6249	Dielectric Strength (at room temperature)	kV/mm	32

1. CTM: Corporate Test Method, copies of CTMs are available on request.

JIS: Japanese Industrial Standard.

2. Linear shrinkage depends on the curing conditions such as type of curing agent, curing temperature and size of molded product.

Properties obtained using 0.4 part of SILASTIC™ SRX 557 U Rubber and 0.5 part of SILASTIC™ RC-4 50P FD Rubber Additive (2,5-bis(tert-butylperoxy)-2,5-dimethyl hexane, 50% masterbatch) per 100 parts of XIAMETER™ RBB-6300-50 Base on 2 mm thick slabs: molded 10 minutes at 160°C (320°F) and post-cured 4 hours at 200°C (392°F).

UNRESTRICTED – May be shared with anyone

™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

XIAMETER™ RBB-6300-50 Base

© 2017 The Dow Chemical Company. All rights reserved.

How To Use

Vulcanization

XIAMETER™ RBB-6300-50 Base requires the addition of a vulcanizing agent. SILASTIC™ RC-4 50P FD Rubber Additive is recommended for molding.

Pigmentation

This silicone rubber base can be pigmented with standard XIAMETER™ Pigment Master Batches.

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.

Limitations

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

Not intended for human injection. Not intended for food use.

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 Dow representative.

<http://www.xiameter.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

