



## Technical Data Sheet

### XIAMETER™ RBB-2200-35 Base

35 durometer, near transparent, high strength, uncatalyzed Silicone Rubber Base

#### Features & Benefits

- High mechanical properties
- High tear strength
- Serviceable over wide temperature range
- Pigmentable
- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting

#### Composition

- XIAMETER™ RBB-2200-35 Base is one of a series of high strength silicone rubber bases. Other products in the series are XIAMETER™ RBB 2200-55 Base and XIAMETER™ RBB-2200-75 Base

#### Typical Properties

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

##### Formulation:

XIAMETER RBB-2200-35 Base Silicone Rubber, parts	100
T Catalyst, 50% active, parts	0.75

ASTM <sup>1</sup>	Property	Unit	Value
	Appearance		Nearly transparent
D926	Plasticity	mm x 100 (mils)	180 (69)
D792	Specific gravity at 23°C (73°F)		1.13
D2240	Durometer	Shore A	28
D412	Tensile strength	MPa (psi)	9.0 (1310)
D412	Elongation	%	1000
D412	Modulus at 100% elongation	MPa (psi)	0.6 (80)

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 standards listed above. Copies of CTMs are available on request.

Properties obtained on 2 mm thick (0.08 inch) slabs: Press cured 5 minute at 116°C (240°F) and Post-cured for 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-2200-35 Base

© 2017 The Dow Chemical Company. All rights reserved.

## Typical Properties (Cont.)

ASTM	Property	Unit	Value
D624 DIE B	Tear strength	kN/m (Ppi)	30 (170)
D395	Compression set after 22 hours at 177°C (351°F)	%	27
D2632	Bashore resilience	%	40
D2137	Brittle point	°C (°F)	-73 (-99)
<b>Heat aged 70 h at 225°C (437°F)</b>			
D2240	Durometer	Shore A	37
D412	Tensile strength	MPa (psi)	9.0 (1305)
D412	Elongation	%	790
D412	Modulus at 100% elongation	MPa (psi)	0.7 (105)

### How To Use

#### Vulcanization

XIAMETER RBB-2200-35 Base requires the addition of a vulcanizing agent. T catalyst (2,4-dichloro-benzoyl peroxide) is recommended for hot air vulcanization. V catalyst (2,5-bis[tert-butylperoxy]-2,5-dimethylhexane) or D catalyst (dicumylperoxide) is recommended for molding.

#### Pigmentation

This silicone rubber base can be pigmented with standard XIAMETER™ Pigment Master Batches. A comprehensive range of master batches is available from Dow.

#### Property Modification

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

For more detailed information on the use of Dow additives, contact your local technical representative.

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

### 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](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

### Usable Life And Storage

Product should be stored at or below 60°C (140°F) in original, unopened containers.

### 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.

UNRESTRICTED – May be shared with anyone

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

XIAMETER™ RBB-2200-35 Base

© 2017 The Dow Chemical Company. All rights reserved.

## 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](http://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.**

