



## Technical Data Sheet

### XIAMETER™ RBB-2000-35 Base

35 Durometer, translucent, general purpose, uncatalyzed Silicone Rubber Base

#### Features & Benefits

- Good extrusion characteristics
- Good translucency
- Serviceable over wide temperature range
- Pigmentable
- Accepts extending fillers
- Formulated and manufactured to comply with:
  - FDA 21 CFR 177.2600 and German BfR Recommendation XV on Silicones

#### Applications

- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting

#### Typical Properties

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

Formulation:			
XIAMETER™ RBB-2000-35 base		parts	100
T Catalyst, 50% active		parts	1.1
ASTM <sup>1</sup>	Property	Unit	Result
	Appearance		Translucent
D926	Plasticity	mm x 100 (mils)	150 (59)
D792	Specific gravity at 23°C (73°F)		
D2240	Durometer	Shore A	35
D412	Tensile strength	MPa (psi)	7.8 (1130)
D412	Elongation	%	705
D412	Modulus at 100% elongation	MPa (psi)	0.6 (85)
D624	Tear strength	kN/m (ppi)	13 (75)
D395	Compression set after 22 hours at 177°C (351°F)	%	24
D2632	Bashore resilience	%	60
D2137	Brittle point	°C (°F)	-73 (-99)

1. ASTM: American Society for Testing and Materials. Materials were tested according to Corporate Test Methods (CTM), which in most cases are similar to the ASTM standards listed above.

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XIAMETER™ RBB-2000-35 Base

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## Typical Properties (Cont.)

ASTM	Property	Unit	Result
<b>Heat aged<sup>2</sup>, 70 hours at 225°C (437°F)</b>			
D2240	Durometer	Shore A	33
D412	Tensile strength	MPa (psi)	6.0 (865)
D412	Elongation	%	620
D412	Modulus at 100% elongation	MPa (psi)	0.6 (80)

2. 1 part phr of XIAMETER™ RBM-9002 Rubber Additive is added to the formulation for Heat Aging

Properties obtained on 2 mm thick (0.08 inch) slabs: Press cured 5 minutes at 116°C (240°F), Post-cured for 4 hours at 200°C (392°F).

### How To Use

#### Vulcanization

XIAMETER™ RBB-2000-35 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 XIAMETER™ Color MasterBatches.

### 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 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 50°C (122°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.

### 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, [consumer.dow.com](http://consumer.dow.com) or consult your local representative.

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