



## Technical Data Sheet

### XIAMETER™ RBB-2002-45 Base

50 durometer, white, translucent, general purpose, uncatalyzed Silicone Rubber Base

#### Features & Benefits

- Serviceable over wide temperature range
- Pigmentable
- Accepts extending fillers
- Formulated to meet FDA 21 CFR 177.2600 and BgVv, XV

#### Applications

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

#### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications. Properties obtained on 2 mm thick (0.08 inches) slabs: Press cured 5 minute at 116°C (240°F), Post-cured for 4 hours at 200°C (392°F).

ASTM <sup>1</sup>	Property	Unit	Result
	Appearance		White
D926	Plasticity	mm/100 (mils)	220 (85)
D792	Specific Gravity at 23°C (73°F)		1.13
D2240	Durometer	Shore A	48
D412	Tensile Strength	MPa (psi)	8.1 (1175)
D412	Elongation	%	445
D412	Modulus at 100% Elongation	MPa (psi)	1.1 (155)
D624 DIE B	Tear strength	kN/m (ppi)	11 (65)
D2632	Bashore Resilience	%	60
D2137	Brittle Point	°C (°F)	-73 (-99)
	<b>Heat aged<sup>2</sup>, 70 hrs at 225°C (437°F)</b>		
D2240	Durometer	Shore A	46
D412	Tensile Strength	MPa (psi)	8.0 (1155)

1. ASTM: American Society for Testing and Materials.

2. 1 part phr of XIAMETER™ RBM-9002 Rubber Additive is added to the formulation for Heat aging. XIAMETER RBM-9002 Rubber Additive is NOT an FDA or BgVv permitted ingredient for food contact applications.

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XIAMETER™ RBB-2002-45 Base

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## Typical Properties (Cont.)

ASTM <sup>1</sup>	Property	Unit	Result
D412	Elongation	%	405
D412	Modulus at 100% Elongation	MPa (psi)	1.1 (160)
<b>Heat aged<sup>2</sup>, 168 days at 260°C (500°F)</b>			
D2240	Durometer	Shore A	50
D412	Tensile Strength	MPa (psi)	4.2 (615)
D412	Elongation	%	215
D412	Modulus at 100% Elongation	MPa (psi)	1.7 (240)

### How To Use

#### Vulcanization

XIAMETER™ RBB-2002-45 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.

### 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.

### 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 representative.

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