



Technical Data Sheet

XIAMETER™ RBB-2060-40 Base

40 Durometer, near transparent, low temperature grade, uncatalyzed silicone rubber base

Features & Benefits

- Low temperature flexibility
- Serviceable over wide temperature range
- Accepts extending fillers
- Pigmentable

Applications

- XIAMETER™ RBB-2060-40 Base is one of two silicone rubber bases designed for low temperature applications. The other is XIAMETER™ RBB-2060-50 Base
- 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-2060-40 Base	parts	100
V Catalyst, 50% active	parts	1

ASTM ¹	Property	Unit	Result
	Appearance		Nearly Translucent
D926	Plasticity	mm x 100 (mils)	160 (63)
D792	Specific Gravity at 23°C (73°F)		1.13
D2240	Durometer	Shore A	38
D412	Tensile Strength	MPa (psi)	7.2 (1050)
D412	Elongation	%	625
D412	Modulus at 100% Elongation	MPa (psi)	0.6 (85)
D624 DIE B	Tear Strength	kN/m (ppi)	11 (65)
D395	Compression set after 22 hours at 177°C (351°F)	%	18

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.

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XIAMETER™ RBB-2060-40 Base

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Typical Properties (Cont.)

ASTM	Property	Unit	Result
D2632	Bashore Resilience	%	58
D2137	Brittle Point	°C (°F)	-116 (-177)
Heat aged², 168 hours at 225°C (437°F)			
D2240	Durometer	Shore A	40
D412	Tensile Strength	MPa (psi)	6.6 (960)
D412	Elongation	%	570
D412	Modulus at 100% Elongation	MPa (psi)	0.8 (110)

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 in) slabs: Press cured 10 minute at 171°C (340°F). Post-cured for 4 hours at 200°C (392°F).

How To Use

Vulcanization

XIAMETER RBB-2060-40 Base requires the addition on 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) 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.

This silicone rubber base can be blended with other durometer silicone rubber bases and extended fillers to produce materials with modified 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, 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. 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>

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