



Technical Data Sheet

XIAMETER™ RBB-2340-50 Base

50 durometer, green, opaque, wire and cable grade, uncatalyzed Silicone Rubber Base

Features & Benefits

- Good electrical insulation
- Serviceable over wide temperature range
- Pigmentable
- Accepts extending fillers

Applications

- Extrusion, tubing and profiles
- Wire and cable
- 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 inch) slabs: Press cured 5 minutes at 116°C (240°F).

Formulation:

XIAMETER™ RBB-2340-50 Base	100
T Catalyst, 50% active, parts	1.3

ASTM ¹	Property	Unit	Result
	Appearance		Green, Opaque
D926	Plasticity	mm x 100 (mils)	330 (131)
D792	Specific Gravity at 23°C (73°F)		1.17
D2240	Durometer	Shore A	53
D412	Tensile Strength	MPa (psi)	10.1 (1460)
D412	Elongation	%	465
D412	Modulus at 100% Elongation	MPa (psi)	1.3 (190)
D624 DIE B	Tear Strength	kN/m (ppi)	18 (100)
D2632	Bashore Resilience	%	41
D2137	Brittle Point	°C (°F)	-73 (-99)
	Dielectric Strength	V/mil	431
	Volume Resistivity	10 ¹⁴ ohm-cm	15.4

Properties obtained on 2mm thick (0.08 inch) slabs: Press cured 5 minutes at 116°C (240°F).

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.

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Typical Properties (Cont.)

ASTM	Property	Unit	Result
Heat aged, 168 hrs at 260°C (500°F)			
D2240	Durometer	Shore A	60
D412	Tensile Strength	MPa (psi)	5.0 (730)
D412	Elongation	%	235
D412	Modulus at 100% Elongation	MPa (psi)	2.1 (310)
Heat aged, 60 days at 210°C (410°F)			
D2240	Durometer	Shore A	59
D412	Tensile Strength	MPa (psi)	5.1 (735)
D412	Elongation	%	250
D412	Modulus at 100% Elongation	MPa (psi)	2.0 (290)

How To Use

Vulcanization

XIAMETER RBB-2340-50 Base requires the addition of a vulcanizing agent. T catalyst (2,4-dichloro-benzoy-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 a range of XIAMETER™ Pigment Master Batches. A comprehensive range of master batches is available from Dow.

Product Range

XIAMETER RBB-2340-50 Base is one of three silicone rubber bases in this series. The other two products are XIAMETER™ RBB-2340-60 and XIAMETER™ RBB-2340-70 Base.

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

When stored at or below 60°C (140°F) in the original unopened containers, this product has a usable life of 36 months from the date of production.

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 representative.

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<http://www.xiameter.com>

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