



Technical Data Sheet

XIAMETER™ RBB-2340-70 Base

70 durometer, off-white, wire and cable grade, uncatalyzed Silicone Rubber Base

Features & Benefits

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

Applications

- Wire and cable goods
- Extrusion, tubing, and profiles
- Molding

Typical Properties

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

ASTM ¹	Property	Unit	Value
	Appearance		Off-white
D926	Plasticity	mm x 100 (mils)	350 (137)
D792	Specific gravity at 23°C (73°F)		1.2
D2240	Durometer	Shore A	68
D412	Tensile strength	MPa (psi)	9.9 (1430)
D412	Elongation	%	390
D412	Modulus at 100% elongation	MPa (psi)	2.4 (345)
D624 DIE B	Tear strength	kN/m (ppi)	23 (130)
D2632	Bashore resilience	%	44
D2137	Brittle point	°C (°F)	-73 (-99)
	Dielectric strength	kV/mm (volts/mil)	17.9 (455)
	Volume resistivity	10 ¹⁴ ohm-cm	5.5

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 by curing with 1.5 phr of T catalyst; on 2 mm thick (0.08 inch) slabs; Press cured 5 minutes at 121°C (250°F).

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Typical Properties (Cont.)

ASTM	Property	Unit	Value
Heat aged, 60 days at 158°C (316°F)			
D2240	Durometer	Shore A	78
D412	Tensile strength	MPa (psi)	4.9 (715)
D412	Elongation	%	175
D412	Modulus at 100% elongation	MPa (psi)	3.2 (470)
Heat aged, 60 days at 210°C (410°F)			
D2240	Durometer	Shore A	80
D412	Tensile strength	MPa (psi)	3.9 (570)
D412	Elongation	%	60

Description

XIAMETER™ RBB-2340-70 Base is a silicone rubber base designed for wire and cable applications.

Formulation:

XIAMETER RBB-2340-70 Base Silicone Rubber, parts	100
T Catalyst, 50% active, parts	1.5
XIAMETER™ RBM-9002 Rubber Additive	1

How To Use

Vulcanization

XIAMETER RBB-2340-70 BASE requires the addition of a vulcanizing agent. T catalyst (2,4-dichloro-benzoylperoxide) 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.

This Silicone Rubber Base can be blended with other durometer silicone rubber bases and extending fillers to produce materials with modified durometers and properties.

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<http://www.xiameter.com>

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