



Technical Data Sheet

XIAMETER™ RBB-2380-55 Base

55 durometer, translucent, low compression set, uncatalyzed silicone rubber base

Features & Benefits

- Low compression set (after post cure)
- 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
- Suitable for food contact

Typical Properties

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

Formulation	
XIAMETER™ RBB-2380-55 Base, parts	100
DBPH-50 Catalyst, 50% active, parts	0.5

Test ¹	Property	Unit	Result
	Appearance		Translucent
D926	Plasticity	mm x 100 (mils)	220 (85)
D792	Specific Gravity at 23°C (73°F)		1.14
D2240	Durometer	Shore A	58
D412	Tensile Strength	MPa (psi)	5.3 (765)
D412	Elongation	%	230
D412	Modulus at 100% elongation	MPa (psi)	2.1 (300)

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. Copies of CTMs are available on request.

Typical Properties (Cont.)

Test	Property	Unit	Result
D624 DIE B	Tear Strength	kN/m (ppi)	8 (45)
D395	Compression set after 22 hours at 177°C (351°F)	%	16
D2632	Bashore Resilience	%	63
D2137	Brittle Point	°C (°F)	-73 (-99)
Heat aged² 70 hours at 225°C (437°F)			
D2240	Durometer	Shore A	69
D412	Tensile Strength	MPa (psi)	4.9 (715)
D412	Elongation	%	95
D412	Modulus at 100% elongation	MPa (psi)	1.0 (195)

- 1 part phr of XIAMETER™ RBM-9002 Modifier is added to the formulation for heat aging. XIAMETER RBM-9002 Modifier is NOT an FDA or BgVV permitted ingredient for food contact applications.

Properties obtained by curing with 0.5 phr of DBPH-50 catalyst; on 2 mm thick (0.08 inch) slabs: Press cured 10 minute at 171°C (340°F).

How To Use

Vulcanization

XIAMETER™ RBB-2380-55 Base requires the addition of a vulcanizing agent. DBPH-50 catalyst (2,5-dimethyl-2,5-Di-(t-butylperoxy)hexane) 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™ Color Master Batches.

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.

Food Contact

This product has been formatted to meet applicable food contact regulations and recommendations (for example: FDA 21.CFR 177.2600 and BgVV, XV).

For further details on the suitability of this product for food contact applications, please refer to the Food Regulatory Profile.

UNRESTRICTED – May be shared with anyone

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XIAMETER™ RBB-2380-55 Base

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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°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 or consult your local Dow representative.

<http://www.xiameter.com>

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