



Technical Data Sheet

XIAMETER™ RBB-2300-30 Base

35 durometer, off-white, opaque, general purpose, uncatalyzed Silicone Rubber Base

Features & Benefits

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

Applications

- 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-2300-30 Base		parts	100
V Catalyst		45% active	parts

ASTM ¹	Property	Unit	Result
	Appearance		Off-White
D926	Plasticity	mm/100 (mils)	190 (74)
D792	Specific Gravity		1.1
D2240	Durometer	Shore A	33
D412	Tensile Strength	MPa (psi)	6.6 (950)
D412	Elongation	%	730
D412	Modulus at 100% elongation	MPa (psi)	0.4 (65)
D624 DIE B	Tear Strength	kN/m (ppi)	11 (60)
D395	Compression set after 22 hours at 177°C (351°F)	%	13
D2632	Bashore Resilience	%	51
D2137	Brittle Point	°C (°F)	-73 (-99)

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.

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XIAMETER™ RBB-2300-30 Base

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Typical Properties (Cont.)

Test	Property	Unit	Result	
Heat Aged ² , 70hrs at 225°C(437°F)				
D2240	Durometer	Shore A	34	
D412	Tensile Strength	MPa (psi)	7.4 (1070)	
D412	Elongation	%	685	
D412	Modulus at 100% elongation	MPa (psi)	0.5 (75)	
Water Immersion ² , 70 hours at 100°C (212°F)				
D2240	Durometer	Shore A	36	
	Volume Swell	%	2	
Oil Resistance ² , 70 hours at 150°C (302°F)			ASTM 1	IRM 903
D2240	Durometer	Shore A	25	12
D412	Tensile Strength	MPa (psi)	6.7 (970)	2.2 (320)
D412	Elongation	%	665	340
D412	Modulus at 100% elongation	MPa (psi)	0.5 (75)	0.4 (65)
	Volume Swell	%	9	63

2. 1 part of phr of XIAMETER™ RBM-9002 Rubber Additive is added to the formulation for Heat Aging, Oil and Water Immersion Data.

Properties obtained on 2 mm thick (0.08 inches) slabs: press cured 10 minutes at 171°C (340°F). Post-cured for 4 hours at 200°C (392°F).

How To Use

Vulcanization

XIAMETER™ RBB-2300-30 Base required 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.

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 to produce materials with intermediate durometers and properties.

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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°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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