

XIAMETER[®] RBB-2150-70 Base

70 Durometer, beige, extrusion grade, uncatalyzed Silicone Rubber Base

FEATURES

- High green-strength
- High temperature resistance
- Will accept extending fillers

APPLICATIONS

- Extrusion, tubing and profiles
- Calandering and sheeting
- Hose

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER sales representative prior to writing specifications on this product.

ASTM*	Property	Unit	Value	
			DCLBP	DCP
	Appearance		Beige	Beige
D526	Plasticity	mm/100	320	320
D792	Specific gravity		1.19	1.19
D2240	Durometer	Shore A	70	71
D412 DIE C	Tensile strength	MPa	10.0	10.0
D412 DIE C	Elongation at break	%	350	340
D624 DIE B	Tear strength	kN/m	25	20
D395 method B	Compression set after 22 hours at 177°C (351°F)	%	20	12
D149	Dielectric strength	kV/mm	20	20
D257	Volume resistivity	Ohm.cm	1.5x10 ¹⁶	1.6x10 ¹⁶

Properties obtained using 1.2 phr DCLBP bis (2,4-dichlorobenzoyl) peroxide 50% on 2mm thick slabs: Press cured 5 minutes at 116°C (241°F). Post-cured 5 hours at 200°C (392°F) OR using 0.6 phr DCP dicumyl peroxide 95% on 2 mm thick slabs: Press cured 10 minutes at 171°C (340°F).

Similar results to those obtained using DCP can be obtained using DHBP, 2,5-dimethyl-2,5-di(t-butylperoxy) hexane. For hot air vulcanization (HAV) we recommend to increase peroxide levels up to 1.5 phr of DCLBP to allow for possible peroxide loss during high temperature curing.

*ASTM: American Society for Testing and Materials

Materials were tested according to Dow Corning Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard listed above. Copies of CTMs are available on request.

HOW TO USE

Pigmentation, modification and blending

XIAMETER[®] RBB-2150-70 Base can be pigmented with standard XIAMETER[®] or *Dow Corning*[®] pigment master batches. A comprehensive range of master batches is available from XIAMETER[®].

The physical properties of this product can be modified using a range of XIAMETER[®] or *Dow Corning*[®] 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.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER

LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER WEBSITE AT WWW.XIAMETER.COM.

USABLE LIFE AND STORAGE

When stored at or below 50°C in the original unopened containers, this product has a usable life of 15 months from the date of production.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or Pharmaceutical uses.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that *Dow Corning*® and XIAMETER® products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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