



## Technical Data Sheet

### XIAMETER™ RBB-2110-50 Base

50 Durometer, translucent, high strength grade, uncatalyzed Silicone Rubber Base

#### Features & Benefits

- High mechanical properties
- High tear strength
- Very good hot de-molding
- Will accept extending fillers
- Formulated to meet BgVV,XV and FDA 21 CFR 177.2600

#### Applications

- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting
- Food contact applications

#### Typical Properties

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

ASTM <sup>1</sup>	Property	Unit	Result	
			DCLBP	DCP
	Appearance		Translucent	Translucent
D792	Specific Gravity		1.15	1.15
D2240	Durometer	Shore A	51	52
D412 DIE C	Tensile Strength	MPa	10.0	11.0
D412 DIE C	Elongation at break	%	600	700
D395 method B	Compression set after 22 hours at 177°C (351°F)	%	45	40
D624 DIE B	Tear Strength	kN/m	33	40

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 standard listed above. Copies of CTMs are available on request.

Properties obtained using 1.2 phr DCLBP bis (2,4-dichlorobenzoyl) peroxide 50% on 2 mm thick slabs: Press cured 5 minutes at 116°C (241°F). Post-cured 4 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 160°C (320°F); Post-cured 4 hours at 200°C (392°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.

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## How To Use

### Pigmentation, Modification and Blending

XIAMETER™ RBB-2110-50 Base can be pigmented with standard XIAMETER™ Pigment Master Batches. A comprehensive range of master batches is available from Dow.

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 formulated to meet applicable food contact regulations and recommendations (for example: FDA 21.CFR 177.2600 and BgVV,Xv).

Note: It remains the manufacturers' responsibility to test the final product.

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

## 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](http://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 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.

## 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](http://www.consumer.dow.com) or consult your local Dow representative.

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