

XIAMETER® RBB-2200-35 Base

35 durometer, near transparent, high strength, uncatalyzed Silicone Rubber Base

FEATURES

- High mechanical properties
- High tear strength
- Serviceable over wide temperature range
- Pigmentable

BENEFITS

- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting

COMPOSITION

- XIAMETER® RBB-2200-35 Base is one of a series of high strength silicone rubber bases. Other products in the series are XIAMETER® RBB-2200-55 Base and XIAMETER® RBB-2200-75 Base

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.

Formulation:

XIAMETER RBB-2200-35 Base Silicone Rubber, parts	100
T Catalyst, 50% active, parts	0.75

¹ ASTM	Test	Unit	Value
	Appearance		Nearly transparent
D926	Plasticity	mm x 100 (mils)	180 (69)
D792	Specific gravity at 23°C (73°F)		1.13
D2240	Durometer	Shore A	28
D412	Tensile strength	MPa (psi)	9.0 (1310)
D412	Elongation	%	1000
D412	Modulus at 100% elongation	MPa (psi)	0.6 (80)
D624	Tear strength	kN/m (Ppi)	30 (170)
DIE B			
D395	Compression set after 22 hours at 177°C (351°F)	%	27
D2632	Bashore resilience	%	40
D2137	Brittle point	°C (°F)	-73 (-99)
	Heat aged 70h at 225°C (437°F)		
D2240	Durometer	Shore A	37
D412	Tensile strength	MPa (psi)	9.0 (1305)
D412	Elongation	%	790
D412	Modulus at 100% elongation	MPa (psi)	0.7 (105)

¹ASTM: 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 standards listed above. Copies of CTMs are available on request.

Properties obtained on 2mm thick (0.08 inch) slabs: Press cured 5 minute at 116°C (240°F) and Post-cured for 4 hours at 200°C (392°F).

HOW TO USE

Vulcanization

XIAMETER RBB-2200-35 Base requires 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 Dow Corning and XIAMETER brand pigment master batches. A comprehensive range of master batches is available from Dow Corning.

Property Modification

The physical properties of this product can be modified using a range of Dow Corning brand and XIAMETER brand additives.

For more detailed information on the use of XIAMETER® additives, contact your local XIAMETER® Technical Representative.

This Silicone Rubber Base can be blended with other durometer silicone rubber bases to produce materials with intermediate 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 WEB SITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored at or below 60°C (140°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

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.

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 our 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.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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