

XIAMETER[®] RBB-2030-40 Base

40 durometer, white, near opaque, no post cure, uncatalyzed Silicone Rubber Base

FEATURES

- No post cure
- Serviceable over wide temperature range
- Pigmentable

APPLICATIONS

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

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 ¹	Test	Unit	Value
Formulation:			
	XIAMETER RBB-2030-40 Base, parts		100
	V Catalyst, 45% active, parts		1
	Appearance		White, nearly opaque
D926	Plasticity	mm x 100 (mils)	150 (59)
D792	Specific gravity at 23°C (73°F)		1.11
D2240	Durometer	Shore A	42
D412	Tensile strength	MPa (psi)	7.2 (1050)
D412	Elongation	%	575
D412	Modulus at 100% elongation	MPa (psi)	0.8 (115)
D624	Tear strength	kN/m (ppi)	11 (65)
DIE B			
D395	Compression set after 22 hours at 177°C (351°F)	%	14
D2632	Bashore resilience	%	67
D2137	Brittle point	°C (°F)	-73 (-99)
Heat aged², 168hrs at 260°C (500°F)			
D2240	Durometer	Shore A	44
D412	Tensile strength	MPa (psi)	3.6 (525)
D412	Elongation	%	255
D412	Modulus at 100% elongation	MPa (psi)	1.3 (185)

¹ASTM: 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.

²1 part phr of XIAMETER[®] RBM-9002 Modifier is added to the formulation for Heat Aging. Properties obtained on 2mm thick (0.08 inch) slabs: Press cured 10 minutes at 171°C (340°F).

DESCRIPTION

XIAMETER[®] RBB-2030-40 Base is one of a series of no-post-cure general purpose and high modulus silicone rubber bases.

HOW TO USE

Vulcanization

XIAMETER RBB-2030-40 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 XIAMETER® Color Master Batches. A comprehensive range of master batches is available from XIAMETER.

Property Modification

The physical properties of this product can be modified using a range of XIAMETER® 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® WEB SITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored at or below 50°C (122°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

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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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