Technical Data Sheet

XIAMETER™ RBB-2380-40 Silicone Rubber

45 durometer, translucent, low compression set, uncatalyzed Silicone Rubber Base

Features & Benefits

- Low compression set
- Serviceable over wide temperature range
- No post cure
- 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.

CTM[1]	Property	Unit	Result
	Appearance		Translucent
D926	Plasticity	mm x 100 (mils)	180 (70)
D792	Specific Gravity at 23°C (73°F)		1.09
D2240	Durometer	Shore A	45
D412	Tensile Strength	MPa (psi)	4.6 (660)
D412	Elongation	%	345
D412	Modulus at 100% Elongation	MPa (psi)	1.1 (155)
D624	DIE B Tear Strength	kN/m (ppi)	7 (40)
D395	Compression set after 22 hours at 177°C (351°F)	%	8
D2632	Bashore resilience	%	63
D2137	Brittle Point	°C (°F)	-73 (-99)

1. Materials were tested according to Corporate Test Methods (CTM), which in most cases are similar to the ASTM standards listed below

Typical Properties (Cont.)

CTM	Property	Unit	Result
	Heat aged[2], 70 hours at 225°C (437°F)		
D2240	Durometer	Shore A	44
D412	Tensile Strength	MPa (psi)	4.2 (605)
D412	Elongation	%	335
D412	Modulus at 100% Elongation	MPa (psi)	1.0 (195)

2. 1 part phr XIAMETER™ RBM-9002 Rubber Additive is added to the formulation for Heat aging

Properties obtained by curing with 1.0 phr of DBPH-50 catalyst; on 2 mm (0.08 in) thick slabs: Press cured 10 minute at 171°C (340°F)

How To Use

Vulcanization

XIAMETER™ RBB-2380-40 Silicone Rubber requires the addition of a vulcanizing agent. DBPH-50 catalyst (2,5-dimethyl-2,5-Di-(t-butylperoxy)hexane) 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. A comprehensive range of master batches is available from Dow.

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 representative.

http://www.xiameter.com

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'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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.