



Technical Data Sheet

XIAMETER™ RBB-2001-65 Base

70 Durometer, near-transparent, general purpose, uncatalyzed Silicone Rubber Base

Features & Benefits

- Good extrusion characteristics
- Good translucency
- Serviceable over wide temperature range
- Pigmentable
- Formulated and manufactured to comply with:
 - FDA 21 CFR 177.2600 and German BfR Recommendation XV on Silicones

Applications

- Extrusion, tubing and profiles
- Molding
- Calendering and sheeting
- Suitable for use in food contact applications

Typical Properties

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

| Formulation: | | | |
|----------------------------|---|-----------------|--------------------|
| XIAMETER™ RBB-2001-65 Base | | parts | 100 |
| T Catalyst, 50% active | | parts | 1.5 |
| ASTM ¹ | Property | Unit | Result |
| | Appearance | | Nearly transparent |
| D926 | Plasticity | mm x 100 (mils) | 300 (119) |
| D792 | Specific gravity at 23°C (73°F) | | 1.2 |
| D2240 | Durometer | Shore A | 71 |
| D412 | Tensile strength | MPa (psi) | 10.1 (1460) |
| D412 | Elongation | % | 320 |
| D412 | Modulus at 100% elongation | MPa (psi) | 2.9 (415) |
| D624 DIE B | Tear strength | kN/m (ppi) | 18 (100) |
| D395 | Compression set after 22 hours at 177°C (351°F) | % | 18 |
| D2632 | Bashore Resilience | % | 48 |
| D2137 | Brittle point | °C (°F) | -73 (-99) |

1. ASTM: 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.

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XIAMETER™ RBB-2001-65 Base

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Typical Properties (Cont.)

| ASTM | Property | Unit | Result |
|---|----------------------------|-----------|------------|
| Heat aged ² 70hrs at 225°C (437°F) | | | |
| D2240 | Durometer | Shore A | 71 |
| D412 | Tensile strength | MPa (psi) | 7.0 (1015) |
| D412 | Elongation | % | 230 |
| D412 | Modulus at 100% elongation | MPa (psi) | 3.1 (445) |

- 1 part of phr of XIAMETER™ RBM-9002 Rubber Additive is added to the formulation for Heat Aging. Properties obtained on 2 mm thick (0.08 inches) slabs: press cured 5 minutes at 116°C (240°F). Post-cured for 4 hours at 200°C (392°F).

How To Use

Vulcanization

XIAMETER™ RBB-2001-65 Base required the addition of a vulcanizing agent. T-catalyst (2,4-dichlorobenzoyl peroxide) is recommended for hot air vulcanization.

V catalyst (2,5-bit[tert-butylperoxy]-2,5-dimethylhexane) is recommended for molding.

Pigmentation

This silicone rubber base can be pigmented with standard XIAMETER™ Pigment MasterBatches.

Property Modification

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 to produce materials with intermediate durometers and properties.

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 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.

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, consumer.dow.com or consult your local Dow representative.

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