



## Technical Data Sheet

### XIAMETER™ RBB-2003-80 Silicone Rubber

80 Shore A, translucent, good demolding, suitable for Pt or peroxide cure system, uncatalyzed silicone rubber base

#### Features & Benefits

- 80 Shore A Hardness
- Good translucency
- Good demolding
- Suitable for Pt or peroxide cure system
- Formulated to meet BfR Recommendation XV and FDA 21 CFR 177.2600

#### Applications

- Cake mold and kitchen ware
- Wire and Cable
- Extrusion, tubing and profiles
- Molding parts
- Calendering and sheeting

#### Typical Properties

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

| Formulation                                |                  |                   |             |
|--------------------------------------------|------------------|-------------------|-------------|
| XIAMETER™ RBB-2003-80 Silicone Rubber, phr |                  |                   | 100         |
| SILASTIC™ RC-4 50P FD Rubber Additive, phr |                  |                   | 1           |
| Test <sup>1</sup>                          | Property         | Unit              | Result      |
|                                            | Appearance       |                   | Translucent |
| D792                                       | Specific Gravity | g/cm <sup>3</sup> | 1.24        |
| D2240                                      | Durometer        | Shore A           | 83          |
| D412                                       | Tensile Strength | MPa               | 9.18        |
| D412                                       | Elongation       | %                 | 320         |
| D624 DIE B                                 | Tear Strength    | kN/m              | 16.5        |

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

Properties obtained using 1.0 phr SILASTIC™ RC-4 50P FD Rubber Additive on 2 mm thick slabs, press cured 10 minutes at 170°C, and post cured 4 hours at 200°C.

## How to Use

### Vulcanization

XIAMETER™ RBB-2003-80 Silicone Rubber requires the addition of a vulcanizing agent. SILASTIC™ RC-4 50P FD and Dow Pt catalysts are recommended for molding and extrusion.

### Pigmentation

This silicone rubber base can be pigmented with a range of XIAMETER™ brand pigment master batches.

### 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.

## Food Contact

This product has been formulated to meet applicable food contact regulations and recommendations (for example: FDA 21.CFR 177.2600 and BfR Recommendation 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 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 32°C in the original unopened containers, this product has a usable life of 9 months from the date of production.

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

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