



## Technical Data Sheet

### XIAMETER™ RBB-2881-80 Silicone Rubber

A silicone rubber designed for use in a variety of molded goods

#### Features & Benefits

- 80 Shore A hardness
- Translucency
- Pigmentable
- Suitable for molding process
- Suitable for food contact

#### Applications

- General molded rubber parts such as keypad, gasket, packing and others

#### Typical Properties

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

ASTM <sup>1</sup>	Property	Unit	Result <sup>2</sup>
	Appearance		Translucent
D926	Plasticity	mm/100	320
D792	Specific gravity		1.22
D2240	Hardness, Shore A		82
D412	Tensile strength	MPa	8.0
D412	Elongation	%	170
D624	Tear strength, angle	KN/m	22.0

1. ASTM: American Society for Testing and Materials
2. Properties obtained using 0.5 part SILASTIC™ RC-4 50P FD Rubber Additive (2,5-bis (tert-butylperoxy)-2,5-dimethyl hexane) on 2 mm thick slabs: molded 10 minutes at 170°C and post-cured 4 hours at 200°C

#### Description

XIAMETER™ RBB-2881-80 Silicone Rubber is a 80 durometer silicone rubber compound especially designed to provide good results when making molded parts. It can be blended with other XIAMETER™ silicone rubbers to obtain intermediate hardness. It is translucent, and therefore can be easily pigmented to obtain most any color shade desired. XIAMETER RBB-2881-80 Silicone Rubber is primarily used for molded parts such as keypad, gasket, and other miscellaneous goods. It is also suitable for food contact applications when properly cured and cleansed, among others, in accordance with the requirements of FDA regulations.

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XIAMETER™ RBB-2881-80 Silicone Rubber

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How To Use	For blending or pigmenting, milling with two-roll mill is the most suitable process. Milling time should be carefully decided to secure uniformity of materials. When molding 0.5 to 1.0 part of SILASTIC RC-4 50P FD Rubber Additive to 100 parts of the stock is recommended. Standard curing temperature is 170°C (338°F), and its cure time depends on the thickness of final products. Post cure condition would be 4 hours at 200°C (392°F), after molding in most cases.
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 <a href="http://WWW.CONSUMER.DOW.COM">WWW.CONSUMER.DOW.COM</a> , OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life And Storage	When stored at or below 50°C (122°F) in the original unopened containers, this product has a usable life of 9 months from the date of production.
Food Contact	The components of XIAMETER RBB-2881-80 Silicone Rubber are listed in 21 CFR177.2600. This FDA regulation deals with rubber articles intended for repeated use in contact with food. The regulation contains limitations on extractables which apply to the finished fabricated articles. For this reason, compliance with such limitations is the responsibility of the user. FDA regulation is valid for US only, local regulatory requirements should be taken into consideration for Asia.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health And Environmental Information	<p>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.</p> <p>For further information, please see our website, <a href="http://www.consumer.dow.com">www.consumer.dow.com</a> or consult your local Dow representative.</p>

<http://www.xiameter.com>

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