Technical Data Sheet

XIAMETER™ RBB-2882-x0 Silicone Rubber

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

Features & Benefits

- 30, 50, 70, 80 Shore A hardness
- Translucent
- Pigmentable
- Suitable for molding process

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[1]	Property[2]	Unit	XIAMETER™ RBB-2882-30 Silicone Rubber	XIAMETER™ RBB-2882-50 Silicone Rubber	XIAMETER™ RBB-2882-70 Silicone Rubber	XIAMETER™ RBB-2882-80 Silicone Rubber
	Appearance		Translucent	Translucent	Translucent	Translucent
D926	Plasticity	mm/100	160	230	310	340
	T10	S	44	53	46	53
	T90	S	83	160	120	190
D792	Specific Gravity	g/cm^3	1.10	1.15	1.21	1.23
D2240	Hardness	Shore A	30	50	70	80
D412	Tensile Strength	MPa	7.8	9.5	8.5	8.3
D412	Elongation	%	700	430	300	200
D624	Tear Strength	KN/m	17.2	24	22	24
CTM[3]0157	Shrinkage	%	3.55	3.48	3.65	3.58
D395	Compression Set	%	28	21	16	13
D2632	Rebound	%	60	68	45	52

1. ASTM: American Society for Testing and Materials.
2. Properties obtained on 2 mm slabs molded 10 minutes at 170°C and post cured 4 hours at 200°C.
3. CTM: Corporate Test Method, copies of CTM's are available on request.

Form No. 45-1751-01-0221 S2D

Description

XIAMETER™ RBB-2882-0x series silicone rubber supply 30, 50, 70, 80 Shore A hardness material, which are 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-2882-x0 silicone rubber is primarily used for molded parts such as keypad, gasket, and other miscellaneous goods. It is also suitable for food contact application when properly cured and cleaned, among others, in accordance with the requirements of FDA regulations, compliance with 21 CFR 177.2600 Rubber articles intended for repeated use and GB4806.1-2016.

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 milling 0.5 to 1.0 part of SILASTIC™ RC-4 50FD 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 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 35°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.

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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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