



XIAMETER™ ECR 380U Electric Conductive Silicone Rubber

Silicone rubber designed for electric conductive parts

Features & Benefits

- Electrically conductive
- 76 JIS-Type A hardness
- Wide service temperature

Composition

- Silicone rubber

Applications

- Paper feed parts
- Rubber molding
- Above ground system accessories

Typical Properties

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

Test	Property	Unit	Result
As supplied			
CTM 0176	Appearance		Black
As cured			
JIS K 6249	Density	g/cm ³	1.20
JIS K 6249	Hardness, JIS type A		77
JIS K 6249	Volume resistivity	Ohm.cm	2

Properties obtained using 2.0 part SILASTIC™ RC-4 50P FD Rubber Additive (2,5-bis(tert-butylperoxy)-2,5-dimethyl hexane, 50% masterbatch) on 2 mm thick slabs: molded 10 minutes at 170°C (338°F) and post-cured 4 hours at 200°C (392°F).

1. CTM: Corporate Test Method, copies of CTMs are available on request.
JIS: Japanese Industrial Standard.

Description

XIAMETER™ ECR 380U Electric Conductive Silicone Rubber is an electrically conductive 76 duro millable silicone rubber which is suitable for rubber contact and other miscellaneous conductive goods. It can be blended with other similar products to adjust hardness and volume resistivity.

How to Use

For blending or pigmenting, milling with a two-roll mill is the most suitable process. Milling time should be carefully decided to secure uniformity of materials. When molding, Dow recommends using about 2.0 parts of SILASTIC™ RC-4 50P FD Rubber Additive to 100 parts of the stock. Standard cure 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 room temperature (away from direct sunlight), maximum 32°C (90°F), in the original unopened containers, this product has a usable life of 24 months from the date of production.

**Packaging
Information**

The product is available in 20 kg boxes.

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.

dow.com

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