



Technical Data Sheet

XIAMETER™ ECR 360U Silicone Rubber

FEATURES

- Electrically conductive
- 60 Shore A Hardness

BENEFITS

- Wide service temperature
- Good processability

Electrically conductive silicone rubber designed for molding and extruding system

APPLICATIONS

- Conductive pill for keypad
- Zebra connector

TYPICAL PROPERTIES

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

ASTM ¹	Property	Unit	Result
	Appearance		Black
D 792	Specific Gravity at 25°C		1.14
D 2240	Hardness, Shore A		60
D 412A	Tensile Strength	MPa	6.0
D 412A	Elongation	%	290
D 928	Plasticity	mm/100	460
D 257	Volume Resistivity	Ohm.cm	5.0

¹ASTM: American Society for Testing and Materials.

Properties except plasticity obtained using 2.0 part DHBP(2,5-bis (tert-butylperoxy)-2,5-dimethyl hexane, 50% masterbatch) on 2 mm thick slabs, molded 10 minutes at 170°C (338°F) followed by 200°C (392°F) / 4hrs oven cure.

DESCRIPTION

XIAMETER™ ECR 360U Silicone Rubber imparts excellent conductivity and is designed for molding and extrusion system. It also has heat resistance, low temperature flexibility, weatherability and resilience as well as conductivity. It can be blended with other similar products to adjust hardness and volume resistivity.

When molding, Dow recommends to use 2.0 to 2.5 part of DHBP (50P) 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.

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.

**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
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STORAGE

Product should be stored at or below 32°C (90°F) in original, unopened containers.

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

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