XIAMETER® from DOW CORNING

XIAMETER® RBL-1551-55P Liquid Silicone Rubber

40 Durometer, two-part, 1 to 1 mix, high voltage grade Liquid Silicone Rubber

FEATURES

- Low viscosity
- Sustained hydrophobicity
- High tear strength
- Low temperature cure
- Excellent tracking resistance

APPLICATIONS

- Hollowcore insulators
- Insulators
- Cable end terminations

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER® sales representative prior to writing specifications on this product.

ASTM[1]	Test	Unit	Value
	As supplied		
	Appearance		Translucent or grey
	Solids content	%	100
	Viscosity (Y=10.0s^{-1})	mPa.s	60,000
	As cured		
D792	Specific gravity	g/cm^3	1.09
D2204	Hardness	Shore A	42
D412	Tensile strength	MPa	6.8
D412	Elongation at break	%	472
D624B	Tear strength	kN/m	31
IEC[2] 60093	Volume resistivity	Ohm.cm	1.00E+15
IEC 60250	Dielectric constant		2.8
IEC 60250	Dissipation factor		0.01
IEC 60587	Tracking resistance		1A4.5
IEC 60243	Dielectric strength	kV/mm	30

[1]ASTM: American Society for Testing and Materials.
[2]IEC: International Electrotechnical Commission.

HOW TO USE

Mixing and de-airing

The A and B components are supplied strained and de-aired to be used as lot matched kits. Mix parts A and B in a 1:1 ratio. Meter mix equipment which pumps, meters and mixes the two components without the incorporation of air is strongly recommended for production. If air bubbles are entrapped during mixing the mixture must be thoroughly degassed under vacuum.

Pot life

When parts A and B are mixed the mixture will remain usable for 72 hours at 25°C (77°F).

Cleaning

The uncured silicone can readily be removed by most hydrocarbon solvents. Polar solvents, such as ketones and alcohols, are not suitable.

Curing

XIAMETER® RBL-1551-55P Liquid Silicone Rubber cures rapidly at elevated temperatures. A 2mm cross-section requires 8-14 seconds at 120°C (248°F). The cure time depends on the thickness and the cure temperature used. Cure can be inhibited by contact with certain materials such as amines, sulphur and tin complexes.

Pigmentation
This is normally carried out during mixing and dispensing of the two components. XIAMETER® Color Master batches from XIAMETER are recommended with normal addition levels of 0.5-4% based on total volume.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER® WEB SITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored at or below 32°C (90°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.