



Technical Data Sheet

SILASTIC™ 2452 Rubber

A peroxide cure 50 IRHD, natural colored, high consistency silicone rubber compound suitable for sealing applications in the aviation market.

Features & Benefits

- 50 nominal IRHD hardness
- Low temperature cure (115°C)
- High tear strength
- Good heat age
- Good low temperature flexibility

Applications

- Aerospace sealing

Typical Properties

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

Test ¹	Property	Unit	Result
	Appearance	Color	Pigmentable
DIN 53505	Hardness	I.R.H.D.	50
DIN 53479	Specific gravity	g/cm ³	1.18
DIN 53504	Tensile strength	MPa	9.4
DIN 53504	Elongation at break	%	550
ASTMD624B	Tear strength	kN/m	23.5
DIN 53517	Compression set (24 hrs. at 150°C)	%	13.8
Heat aged - 336 hrs. @ 200°C			
DIN 53505	Change in hardness	Δ I.R.H.D.	-3 to +7
DIN 53504	Change in tensile strength	Δ %	-20% max
DIN 53504	Change in elongation at break	Δ %	-30% max

1. DIN: Deutsche Industrie Norm
ASTM: American Society for Testing and Materials

Required curing conditions

Curing agent	Addition level	Cure time/temp.	Post cure
DCLBP bis (2,4-dichlorobenzoyl) peroxide 50%	Supplied catalyzed ²	5 min at 115°C	12 hrs. at 225°C

2. Further or alternative peroxide addition is NOT recommended.

How to Use**Pigmentation, modification and blending**

SILASTIC™ 2452 Rubber can be pigmented with standard XIAMETER™ RBM-2400 Pigment Masterbatches. A comprehensive range of masterbatches is available from Dow. The physical properties of this product should NOT be modified using any silicone additives or by blending with other XIAMETER™ rubber bases. For more detailed information on the use of Dow additives please contact your local Dow office.

**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 50°C in the original unopened containers Dow will guarantee the usable life of this product until the date indicated on the packaging. This product will have a usable life of at least 6 months when shipped.

**Packaging
Information**

SILASTIC™ 2452 Rubber is available in 20 kg boxes as standard, sheeted or bulked, wrapped in polythene sheeting. Orders over 240 kg can be pre-formed, in coiled or continuous wig-wag, for automatic feed into an extruder or injection molding equipment.

Food Contact

SILASTIC™ 2452 Rubber does NOT comply with FDA food additive regulation 21 CFR 177.2600 and BGA XV, silicones, which covers rubber articles intended for repeated food contact use. Manufacturers should do their own testing to evaluate the level of extractables for this product as formulated by them under their specific processing conditions.

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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