

Product Information

Fluorosilicone Rubber Base

DOW CORNING

SILASTIC® LS 4-9080

FEATURES

- High modulus
- Very low compression set
- No post cure potential
- High resiliency
- Good tensile strength
- Good handling properties
- Easily pigmented
- Excellent solvent/fluid resistance
- Retains properties over a wide temperature range

80 Durometer, off-white, uncatalyzed Fluorosilicone Rubber Base

APPLICATION

- Molded, extruded and calendered goods

TYPICAL PROPERTIES

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

ASTM*	Property	Unit	Value
D792	Specific gravity		1.55
D2240	Durometer at 1 second	Shore A	81
D412 DIE C	Tensile	MPa (psi)	7.5 (1090)
D412 DIE C	Elongation at break	%	159
D624	Tear B	kN/m (ppi)	19.9 (114)
D2632	Bashore resiliency	% rebound	29
D395 method B	Compression set after 22 hours at 177°C (351°F)	%	11
D471	Volume Swell in ASTM Reference Fuel B, 24 hours at 23°C (73°F)	%	15
D412 DIE C	Modulus 100%	MPa (psi)	5.6 (816)
CTM 0157	Shrink	%	3.3
D395 method B	Typical as-molded, compression set 10 minutes at 171°C (340°F)	%	25

Properties obtained using 1.0 phr SILASTIC® HT-1 Modifier and 1.0 phr DBPH-50 (DHBP) (2,5-bis (tert-butylperoxy) 2,5 dimethyl hexane) on 1.91mm (0.075-inch-thick) slabs; molded 10 minutes at 171°C (340°F); post-cured 4 hours at 200°C (392° F).

*ASTM: American Society for Testing and Materials.

Materials were tested according to Dow Corning Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard listed above. Copies of CTMs are available on request.

HOW TO USE

Pigmentation, modification and blending

SILASTIC LS 4-9080 can be pigmented with standard Dow Corning pigment masterbatches. A comprehensive range of masterbatches is available from Dow Corning. The physical properties of this product can be modified using

a range of Dow Corning additives.

This product can be blended with other durometer fluorosilicone rubbers to produce materials with intermediate durometers and properties. It can also be blended with conventional SILASTIC® brand silicone rubber to provide intermediate fluid resistance at intermediate costs.

For more detailed information on the use of Dow Corning additives, contact your local Dow Corning office.

HEAT STABILITY

Optimum heat stability can be achieved by adding 1.0 phr of SILASTIC HT-1 Modifier.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 50°C (122°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

PACKAGING

This product is available in 22.6kg boxes.

Samples are available.

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 Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

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 Dow Corning's 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.

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