



Technical Data Sheet

SILASTIC™ FCM 40-1174 FX Silicone Rubber Brown

Features & Benefits

- Good chemical resistance

Applications

- Injection molding
- Automotive electrical connector seal

Typical Properties

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

Test ¹	Property ²	Unit	Result
CTM0022	Specific gravity		1.41
CTM0099	Durometer	Shore A	35.3
CTM0137A	Tensile	MPa (psi)	8.6 (1247)
CTM0137A	Elongation at break	%	467.6
CTM0137A	Modulus (100%)	MPa (psi)	0.9 (130.1)
CTM0159A	Tear Die B	ppi (kN/m)	111.3 (19.5)
CTM0085	Compression set, plied discs ³	%	6.66
CTM0280	Heat age durometer, change ⁴	Shore A	-3
CTM0280	Heat age tensile, change ⁴	%	-44.2
CTM0280	Heat age elongation, change ⁴	%	-3.5
CTM0231A	IRM-903 fluid age durometer, change ⁵	Shore A	-3.6
CTM0231A	IRM-903 fluid age tensile, change ⁵	%	-16.5
CTM0231A	IRM-903 fluid age elongation, change ⁵	%	3.4
CTM0130	IRM-903 fluid age volume swell ⁵	%	2.1
CTM0231A	Reference fuel C fluid age durometer, change ⁶	Shore A	-4.4
CTM0231A	Reference fuel C fluid age tensile, change ⁶	%	-53.8
CTM0231A	Reference fuel C fluid age elongation, change ⁶	%	-39.1

1. CTM: Corporate Test Method, copies of CTM's are available on request.
2. Properties obtained on 2.0 mm (0.080 inch) thick slabs; molded 10 minutes at 177°C (350°F).
3. Compression set: 22 hours at 175°C (347°F).
4. Heat age: 70 hours at 225°C (437°F).
5. Fluid age: 70 hours at 150°C (302°F) in IRM-903.
6. Fluid age: 70 hours at 23°C (73°F) in Reference Fuel C.

Typical Properties (Cont.)

Test	Property	Unit	Result
CTM0130	Reference fuel C fluid age volume swell ⁶	%	20.2
CTM0231A	Dextron™ III ATF fluid age durometer, change ⁷	Shore A	-0.8
CTM0130	Dextron™ III ATF fluid age volume swell ⁷	%	1.3
CTM0460	Brittleness point ⁸		Pass

7. Fluid age: 70 hours at 150°C (302°F) in Dextron™ III ATF.

8. Brittleness point: 3' at -55°C (-67°F).

How to Use

SILASTIC™ FCM 40-1174 FX Silicone Rubber Brown is customized and fully formulated compound typically used in high-volume injection molding processes.

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 40°C (104°F) in the original, unopened container, this product has a usable life of 6 months from the date of production.

Packaging Information

Available in customize packaging and form.

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.

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