



Technical Data Sheet

SILASTIC™ 28075HD-V Fluorosilicone Rubber Blue

Features & Benefits

- Meet application requirements with excellent fuel resistance
- Fuel resistance; flexibility in high service temperatures (200°C) (flexible in heat and cold)
- Good compression set
- Resistance and stress relaxation properties
- Low swell
- High tear strength

Applications

- Fuel delivery quick-connector seals and O rings

Typical Properties

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

Test ¹	Property ²	Unit	Result
CTM0022	Specific gravity		1.54
CTM0099	Durometer	Shore A	73
CTM0137A	Tensile	MPA (psi)	7.3 (1059)
CTM0137A	Elongation at break	%	212
CTM1112	Tear Die C	ppi (kN/m)	143 (25)
CTM0085	Compression set, plied discs ³	%	4
CTM0280	Heat age tensile, change ⁴	%	-3.6
CTM0280	Heat age elongation, change ⁴	%	0.5
CTM1035	Ozone resistance ⁵	P/F	Pass
CTM1035	Low temperature retraction, TR10 ⁶	°C/°F	-64

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). Post cure: 4 hours at 200°C (392°F).
3. Compression set: 70 hours at 175°C (347°F).
4. Heat age: 1000 hours at 175°C (347°F).
5. Ozone resistance: 70 hours at 50 pphm at 38°C (100°F).
6. Low temperature brittleness: specimens conditioned 10 min at -70°C (-94°F) to -73°C (-99°F) in methanol (ASTM D1329).

Typical Properties (Cont.)

Test	Property	Unit	Result
336 hrs at 60°C, in reference fuel C			
CTM0231A	Fluid age durometer, change	Shore A	-17
CTM0231A	Fluid age tensile, change	%	-13.3
CTM0231A	Fluid age elongation, change	%	-17.3
CTM0130	Fluid age volume swell	%	21.7
336 hrs at 60°C, in oxidized fuel			
CTM0231A	Fluid age durometer, change	Shore A	-24
CTM0231A	Fluid age tensile, change	%	-30.5
CTM0231A	Fluid age elongation, change	%	5.4
CTM0130	Fluid age volume swell	%	24.5
2000 hrs at 60°C, in 70% reference fuel C / 30% methanol (vol. / vol.)⁷			
CTM0231A	Fluid age durometer, change	Shore A	-17
CTM0231A	Fluid age tensile, change	%	-12.2
CTM0231A	Fluid age elongation, change	%	-14.9
CTM0130	Fluid age volume swell	%	21.5
2000 hrs at 60°C, in 70% reference fuel C / 30% methanol (vol. / vol.), 48 hrs dryout at 100°C⁷			
CTM0231A	Fluid age durometer, change	Shore A	-3
CTM0231A	Fluid age tensile, change	%	-0.1
CTM0231A	Fluid age elongation, change	%	6.7
CTM0130	Fluid age volume swell	%	-0.4
2000 hrs at 60°C, in 15% reference fuel C / 85% methanol (vol. / vol.)⁷			
CTM0231A	Fluid age durometer, change	Shore A	-9
CTM0231A	Fluid age tensile, change	%	-25.1
CTM0231A	Fluid age elongation, change	%	3.6
CTM0130	Fluid age volume swell	%	6.5
2000 hrs at 60°C, in 15% reference fuel C / 85% methanol (vol. / vol.), 48 hrs dryout at 100°C⁷			
CTM0231A	Fluid age durometer, change	Shore A	1
CTM0231A	Fluid age tensile, change	%	-0.8
CTM0231A	Fluid age elongation, change	%	11.3
CTM0130	Fluid age volume swell	%	-0.8
2000 hrs at 60°C, in 60% reference fuel C / 25% methanol / 15% MTBE (vol. / vol.)⁷			
CTM0231A	Fluid age durometer, change	Shore A	-25
CTM0231A	Fluid age tensile, change	%	-42.7
CTM0231A	Fluid age elongation, change	%	-20.9
CTM0130	Fluid age volume swell	%	27.8

7. Fuel was replaced every 336 hours in the 2000 hours immersions.

How to Use

SILASTIC™ 28075HD-V Fluorosilicone Rubber Blue is customized and fully formulated compound typically used in transfer compression and injection molding.

**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.

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

