

Chemical-Resistant Fluoroelastomer

Product Facts

- Excellent fuel resistance
- Low profile
- Rugged
- Lightweight



Applications

A high-performance elastomeric blend of polymers, TE -51 material offers excellent fluid resistance.

It is suitable for use in most areas of military vehicle harnessing. This material is available in the Uniboot range and other slimline boots and transitions. The standard color is black.

Installation

-51 molded parts will shrink on the application of heat above 135°C [275°F].

Recommended installation temperature is 150°C [302°F]

Operating Temperature Range

-55°C to 135°C
[-67°F to 275°F]

Available in:	Americas	Europe	Asia Pacific
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-51 (Continued)

Specifications/Approvals

Specification	TE
SC-X-15112 (U.S.)	RT-1321

Product Characteristics

	Specification Requirements	Test Method
Physical	Tensile strength	1500 psi (min.)
	Ultimate elongation	300% (min.)
	Specific gravity	1.6 (max.)
Thermal	Heat aging for 168 h at 121°C [250°F]	Tensile strength 1200 psi. (min.) Elongation 250% (min.)
	Heat shock for 4 h at 200°C [392°F]	No dripping, flowing, or cracking
	Low-temperature flex for 4 h at -55°C [-67°F]	No cracking
	Flammability (burn time)	120 seconds, 1 inch (max.)
Electrical	Dielectric strength	200 V/mil (min.)
Fluid resistance	Lubricating oil, diesel oil, water for 24 h at 25°C [77°F]	Tensile strength 1000 psi (min.) Elongation 225% (min.) Weight increase 10% (max.)
	Gasoline for 24 h at 25°C [77°F]	Tensile strength 800 psi (min.) Elongation 225% (min.) Weight increase 25% (max.)
	Isopropyl alcohol, cleaning fluid for 24 h at 25°C [77°F]	Tensile strength 1400 psi (min.) Elongation 225% (min.) Weight increase 10% (max.)
	Hydraulic fluid for 24 h at 71°C [160°F]	Tensile strength 1000 psi (min.) Elongation 225% (min.) Weight increase 25% (max.)