



TECHNICAL REPORT

PF10-80 BLACK PERFLUOROELASTOMER COMPOUND

GENERAL PROPERTIES

Perfluoroelastomer compounds offer excellent chemical resistance due to the presence of fully fluorinated monomers. The strong bonds between the carbon and fluorine atoms make the chemical structure extremely stable and resistant to a wide combination of chemicals, weather, and compression set. PF10-80 compound is carbon black filled to offer good mechanical properties and excellent chemical resistance with a static operating temperature range of -25F to +572F. Perfluoroelastomer compounds are widely used in the oil refining and chemical processing industries but are not recommended for contact with Uranium Hexafluoride, fully halogenated Freon or molten alkali metals.

ASTM Designation	ORIGINAL PROPERTIES	ASTM D2000 SPECIFICATION	LABORATORY PROPERTY
	Durometer, Shore A	80 +/- 5	82
	Tensile, psi (MPa), Minimum	-	2206 (15.22)
	Elongation, % Minimum	-	164
	Specific Gravity	-	1.994
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	COMPRESSION SET, 70 HRS @ 200 C (ASTM D395, Method B)		
	Original Deflection, % Maximum	-	21.7
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	COMPRESSION SET, 70 HRS @ 250 C (ASTM D395, Method B)		
	Original Deflection, % Maximum	-	32.8
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	COMPRESSION SET, 70 HRS @ 300 C (ASTM D395, Method B)		
	Original Deflection, % Maximum	-	46

MANUFACTURER'S CROSS REFERENCE

PF10-80 is designed to meet or exceed the properties of 4079