



TECHNICAL REPORT PF15-80 BLACK HIGH CHEMICAL RESISTANT 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 are peroxide cured to make the chemical structure extremely stable and resistant to a wide combination of chemicals, weather, and compression set. The PF15-80 compound is a BLACK perfluoroelastomer compound that offers excellent chemical resistance to acids, bases, amines, steam, ethylene oxide and many other aggressive chemicals. PF15-80 has a recommended maximum operating temperature range of -4F (-20C) to +500F (+260C).

ASTM Designation	ORIGINAL PROPERTIES	ASTM D2000 SPECIFICATION	LABORATORY PROPERTY
	Durometer, Shore A	80 +/- 5	79
	Tensile, psi (MPa), Minimum	-	2003 (13.82)
	Elongation, % Minimum	-	133
	Modulus at 100%, Psi (Mpa)	-	1522 (10.5)
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	COMPRESSION SET, 70 HRS @ 150C (ASTM D395, Method B O-Ring -214)		
	Original Deflection, % Maximum	-	6.5
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	COMPRESSION SET, 70 HRS @ 175C (ASTM D395, Method B O-Ring -214)		
	Original Deflection, % Maximum	-	9.4
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	COMPRESSION SET, 70 HRS @ 200C (ASTM D395, Method B O-Ring -214)		
	Original Deflection, % Maximum	-	13.9
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	COMPRESSION SET, 70 HRS @ 250 C (ASTM D395, Method B O-Ring -214)		
	Original Deflection, % Maximum	-	46.2

MANUFACTURER'S CROSS REFERENCE

PF15-80 is designed to meet or exceed the properties of 6375 and 550