



SPEC SEALS TECHNICAL REPORT PF20-80 BLACK HIGH TEMPERATURE 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. SPEC SEALS's PF20-80 compound is carbon black filled to offer good mechanical properties and excellent high temperature performance with a static operating temperature range of -22F to +600F. SPEC SEALS PF20-80 provides the best high temperature performance but is reduced chemical, amine or steam resistance over other perfluoroelastomer compounds.

<u>ASTM Designation</u>	<u>ORIGINAL PROPERTIES</u>	SPEC SEALS PF20-80 <u>ASTM D2000 SPECIFICATION</u>	<u>LABORATORY PROPERTY</u>
	Durometer, Shore A	75 +/- 5	78
	Tensile, psi (MPa), Minimum	-	1673 (11.5)
	Elongation, % Minimum	-	170
	Modulus at 100%, Psi (Mpa)	-	996 (6.87)
	<u>COMPRESSION SET, 70 HRS @ 200 C (ASTM D395, Method B)</u>		
	Original Deflection, % Maximum	-	19.5
	<u>COMPRESSION SET, 70 HRS @ 250 C (ASTM D395, Method B)</u>		
	Original Deflection, % Maximum	-	24.5
	<u>COMPRESSION SET, 70 HRS @ 300 C (ASTM D395, Method B)</u>		
	Original Deflection, % Maximum	-	32.4