
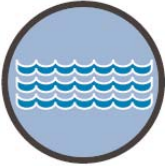


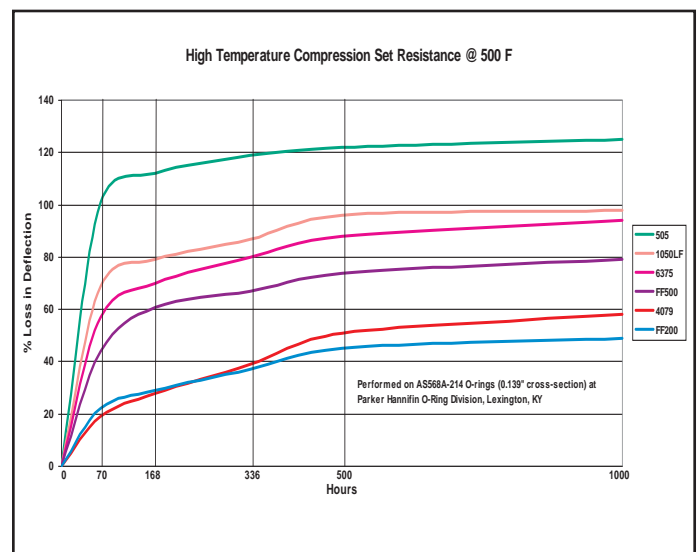
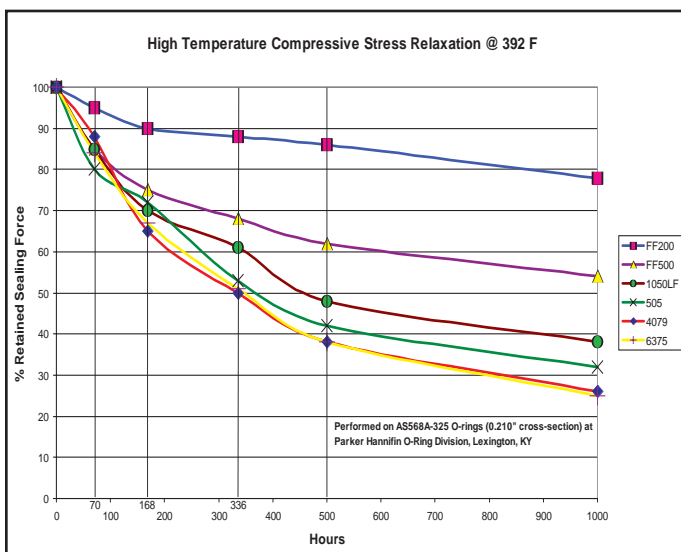
Perfluoroelastomer FF200-75

No. ORD 5748

FF200-75 for Thermal and Wet Semiconductor Applications

Parker FF200-75 is a black 75 durometer Perfluoroelastomer targeted for thermal and wet semiconductor applications. It features excellent continuous high temperature stability, outstanding compression set resistance, seal force retention and excellent broad chemical resistance; making it an ideal candidate for thermal and wet semiconductor applications.

 <p>Thermal</p>	Oxidation/Diffusion	150°C-300°C 302°F-572°F	N2/O2/H2O	<p>Static Seals: Lids Endpoint Windows Chambers Gas Inlets KF Centering Rings Flanges Quartz Chambers Bell Jars</p> <p>Dynamic Seals: Slit Valve Doors Mass Flow Controls Throttle Valves Isolator Valves Exhaust Valves Fittings</p>
	LPCVD	150°C-300°C 302°F-572°F	NH3	
	RTR	150°C-300°C 302°F-572°F	IR Resistance/Low Outgassing/Thermal Stability	
 <p>Wet</p>	Surface Prep, Cleaning, Rinse	25°C-125°C 77°F-257°F	UPDI, SC-1, HF, HCL	<p>Static Seals: Lids Chemical Containers Chemical Baths</p>
	Wet Etching	25°C-180°C 77°F-356°F	HF, UPDI, H2SO4	
	Photolithography, Developing & Rinse	25°C-125°C 77°F-257°F	nMP, H2SO4, NaOH	<p>Dynamic Seals: Pumps Valves Connectors Flow Meters Filters Contact Rings Thrust Plates</p>
	Wet Strip	25°C-125°C 77°F-257°F	nMP, H2SO4, NaOH	
	Copper Plating	25°C-100°C 77°F-212°F	CuSO4, H2SO4, UPDI	



AS568-214 Test Data

Date: April 25, 2006 / July 14, 2006

PROPERTY	FF200-75	Typical Results
Original Physical Properties ASTM D1414		
Shore A Hardness		79
Tensile Strength, MPa		12.0
Elongation, %		124
Modulus at 100% Elongation, MPa		7.8
Compression Set, 70 hours at 200°C, ASTM D395 Method B, 2-214 Size O-Rings		
%Permanent Set		12
Compression Set, 70 hours at 316°C, ASTM D395 Method B, 2-214 Size O-Rings		
%Permanent Set		45
Low Temperature Retraction. ASTM D1329		
TR-10 Degress in C		-2
Volume Change, 70 hours at room temperature, ASTM D471		
Acetone, % Volume Change		0.4
Methyl Ethyl Ketone, % Volume Change		0.2
Methanol, % Volume Change		0.2
Benzene, % Volume Change		0.3
Toluene, % Volume Change		0.3
Dichloromethane, % Volume Change		0.6
Chloroform, % Volume Change		0.6
Ethyl Acetate, % Volume Change		0.4
MTBE, % Volume Change		0.2
Glacial Acetic Acid, % Volume Change		0.4
Conc. Phosphoric Acid, % Volume		0.0
50/50 by Volume, MEK/Methanol, % Volume Change		0.7
Tetrahydrofuran (THF), % Volume Change		0.4
Styrene Monomer, % Volume Change		0.0
Methyl Methacrylate Monomer, % Vol. Change		0.5

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Total System Solutions: Parker's Seal Group offers a complete line of O-rings, custom molded shapes, composite (rubber bonded-to-metal/plastic) seals, PTFE and thermoplastic seals, bumpers, dust covers, diaphragms, isolators, washers and thermoset injection molded boots and bellows for a wide variety of applications. Parker's "total systems sealing" approach can help customers reduce costs and improve efficiency.



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