
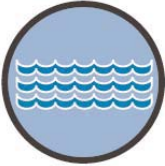
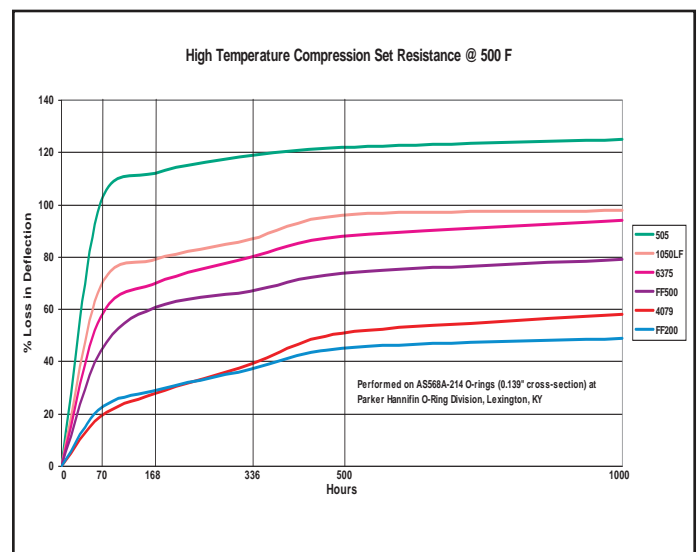
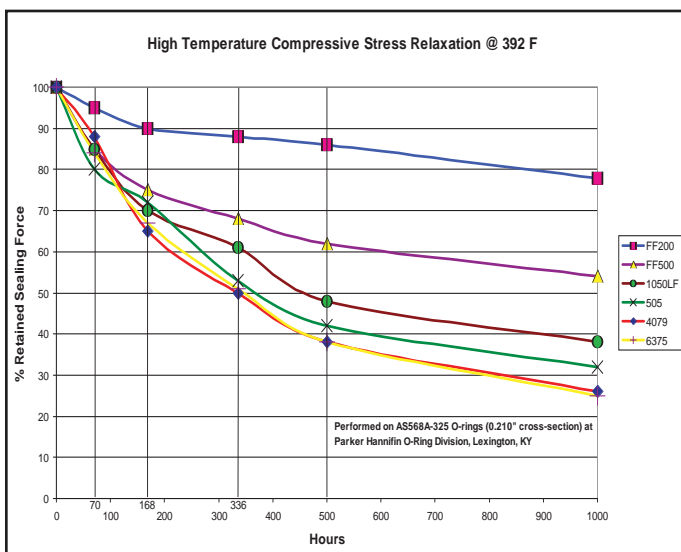


# FF200-75 for Thermal and Wet Semiconductor Applications

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.

 <b>Thermal</b>	Oxidation/Diffusion	150°C-300°C 302°F-572°F	N2/O2/H2O	<b>Static Seals:</b> Lids Endpoint Windows Chambers Gas Inlets KF Centering Rings Flanges Quartz Chambers Bell Jars  <b>Dynamic Seals:</b> Slit Valve Doors Mass Flow Controls Throttle Valves Isolator Valves Exhaust Valves Fittings
	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	
 <b>Wet</b>	Surface Prep, Cleaning, Rinse	25°C-125°C 77°F-257°F	UPDI, SC-1, HF, HCL	<b>Static Seals:</b> Lids Chemical Containers Chemical Baths  <b>Dynamic Seals:</b> Pumps Valves Connectors Flow Meters Filters Contact Rings Thrust Plates
	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	
	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
<b>Original Physical Properties ASTM D1414</b>		
Shore A Hardness		79
Tensile Strength, MPa		12.0
Elongation, %		124
Modulus at 100% Elongation, MPa		7.8
<b>Compression Set, 70 hours at 200°C, ASTM D395 Method B, 2-214 Size O-Rings</b>		
	%Permanent Set	12
<b>Compression Set, 70 hours at 316°C, ASTM D395 Method B, 2-214 Size O-Rings</b>		
	%Permanent Set	45
<b>Low Temperature Retraction. ASTM D1329</b>		
	TR-10 Degress in C	-2
<b>Volume Change, 70 hours at room temperature, ASTM D471</b>		
	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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