

# FF580-75 & FF582-90

ULTRA™ Perfluoroelastomer O-rings



## Outstanding Broad Chemical Resistance:

Parker's ULTRA™ line of perfluoroelastomers were developed for use in harsh operating environments. FF580-75 and FF582-90 were specifically designed for chemical resistance, providing sealing solutions to those industries and applications where good thermal stability (up to 275°C) and extreme chemical resistance is a major concern.



## Contact Information:

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## Product Features:

- 75 and 90 shore A durometer
- Black in color
- Maximum operating temperature 275°C (527°F)
- Excellent compatibility with aggressive media
- Base resistance is best in class
- Steam resistance is best in class
- Outstanding compression set resistance
- Outstanding mechanical properties
- Products include O-rings, molded shapes, gask-o-seals and rubber bonded seals

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### FF580-75 & FF582-90 Material Data

Original Physical Properties	Test Method	FF580-75	FF582-90
Hardness, Shore A, pts.	ASTM D2240	73	90
Tensile strength, psi	ASTM D1414	1700	2862
Ultimate elongation, %	ASTM D1414	234	113
Modulus at 100% Elongation , psi	ASTM D1414	419	2639
Specific Gravity	ASTM D297	2.00	1.87
<b>Fluid Immersion Steam, 70 hrs. @ 181°C (ASTM D471)</b>			
Hardness change, pts.		-5	-5
Volume Change, %		+1	+5
<b>Compression set, 70 hrs @ 230°C (ASTM D395 Method B)</b>			
% of original deflection, max		21	25
<b>Fluid Immersion H<sub>2</sub>O, 70 hrs. @ 181°C (ASTM D471)</b>			
Hardness change, pts.		-5	-3
Volume change, %		+5	+7
<b>Fluid Immersion Ethylene Diamine, 70 hrs. @ 90°C (ASTM D471)</b>			
Hardness change		-5	N/T <sup>1</sup>
Volume change, %		+6	N/T <sup>1</sup>

The above table shows physical properties before testing and hardness, volume and physical property changes recorded after the test periods for the steam application.

1) Not yet tested.

