

HiFluor™ HF351-65 High Purity Sealing

No. 5738

Description

HF351-65 is the newest member to Parker's HiFluor material family. HiFluor™ is the Parker tradename for high performance fluoroelastomers – materials that “bridge the gap” between traditional fluorocarbon and perfluoroelastomer materials.

HF351-65 is a unique material technology developed by Parker for the demanding Life Sciences (pharmaceutical, bio-tech and medical) and Semiconductor Industries. HF351-65 is a low closure force, 65 durometer, translucent, high purity, high performance fluoroelastomer that is compliant to UPS Class VI and FDA Standards.

HF351-65 temperature range: -26°C to 204°C (-15°F to 400°F)



Typical Applications

HF351-65 is available as either o-rings or custom molded seals for high purity elastomeric sealing applications that require extremely low extractables, and excellent fluid resistance to aggressive chemistries, within the Life Sciences and Semiconductor Markets.

Features and Benefits

- ✓ USP Class VI
- ✓ Meets the extractable requirements of FDA, 21 CFR177.2600
- ✓ Improved cleanliness compared to fluorocarbon (FKM)
- ✓ Cost effective alternative to FFKM (perfluoroelastomers)
- ✓ Low closure force

More than Manufacturing

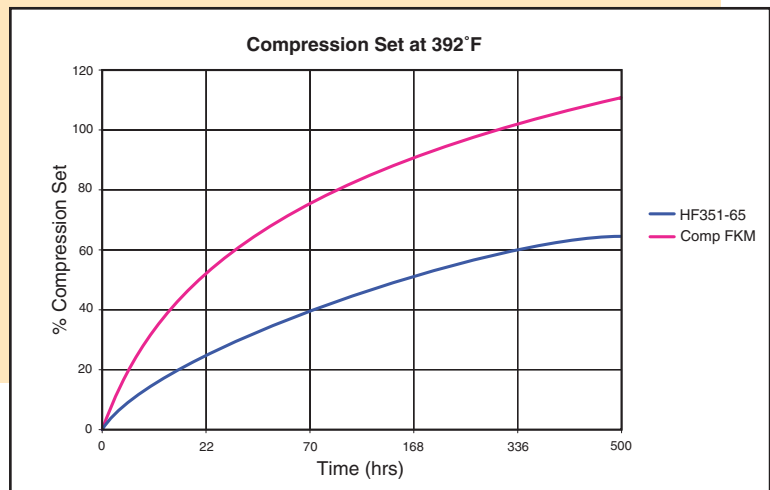
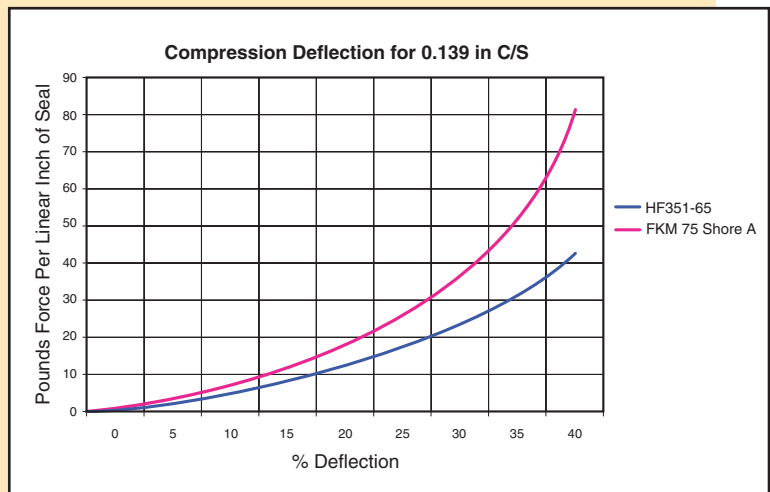
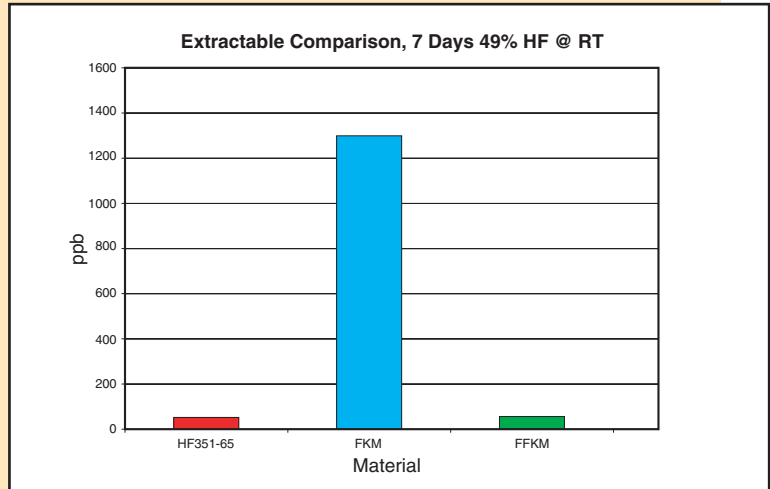
Parker Hannifin is a leading supplier of o-ring sealing products. Parker has a range of customer support tools, including a dedicated sales and applications engineering staff, research and development team, finite element analysis (FEA) capabilities, Total inPHorm™ seal design software, and unparalleled worldwide local logistics through Parker Distributors and Service Centers.

Property	Typical Results
Original Properties, ASTM D1414, D2240, D297	
Hardness Change, Shore A, pts	.66
Tensile Strength, psi	.834
Elongation, %	.235
Modules @ 100% Elongation, psi	.289
Specific Gravity	1.92
Heat Age, 168 hours @ 175°C (347°F), ASTM D573	
Hardness Change, Shore A, pts	+3
Tensile Strength Change, %	-3
Elongation Change, %	-6
Modules Change, %	+4
Weight Change, %	0
Compression Set, ASTM D395	
% set, 22 hours @ 175°C (347°F)	7.1
% set, 70 hours @ 175°C (347°F)	10.7
% set, 168 hours @ 175°C (347°F)	14.3
% set, 500 hours @ 175°C (347°F)	25.0

Property	Typical Results
Volume Change, 70 hours @ RT, ASTM D471	
Sulfuric Acid, % Volume Change	+0.1
Phosphoric Acid, % Volume Change	+0.1
Methanol, % Volume Change	+1.3
Toluene, % Volume Change	+2.8
Chloroform, % Volume Change	+5.2
Low Temperature Retraction, ASTM D1329	
TR-10 - Celsius (Fahrenheit)	-2.6°(27.3°)



Hi-Fluor™ HF351-65 High Purity Sealing



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 Questions? Contact a Parker Applications Engineer for assistance (859) 335-5101.

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