

HF361-65

HiFluor Fluoroelastomer for Semiconductor Applications

Parker HiFluor Compound HF361-65 is a tan colored highly fluorinated, chemically resistant material that acts as a lower cost suitable replacement to FFKM in select Semiconductor processes. In applications such as etching, deposition, and gas transfer HF361-65 has comparable performance to competitive FFKMs. Incorporating HiFluor materials can significantly reduce the total cost of ownership of semiconductor manufacturing.

This lower durometer material is intended to make installation easier for O-rings and other seal types into tighter groove shapes, such as dovetails and radius corner designs. It can relieve some pressure on somewhat sensitive hardware. HF361-65 seals can be compressed with lower closure forces than other fluoroelastomers for improved reliability and sealing performance.

Recommended For:

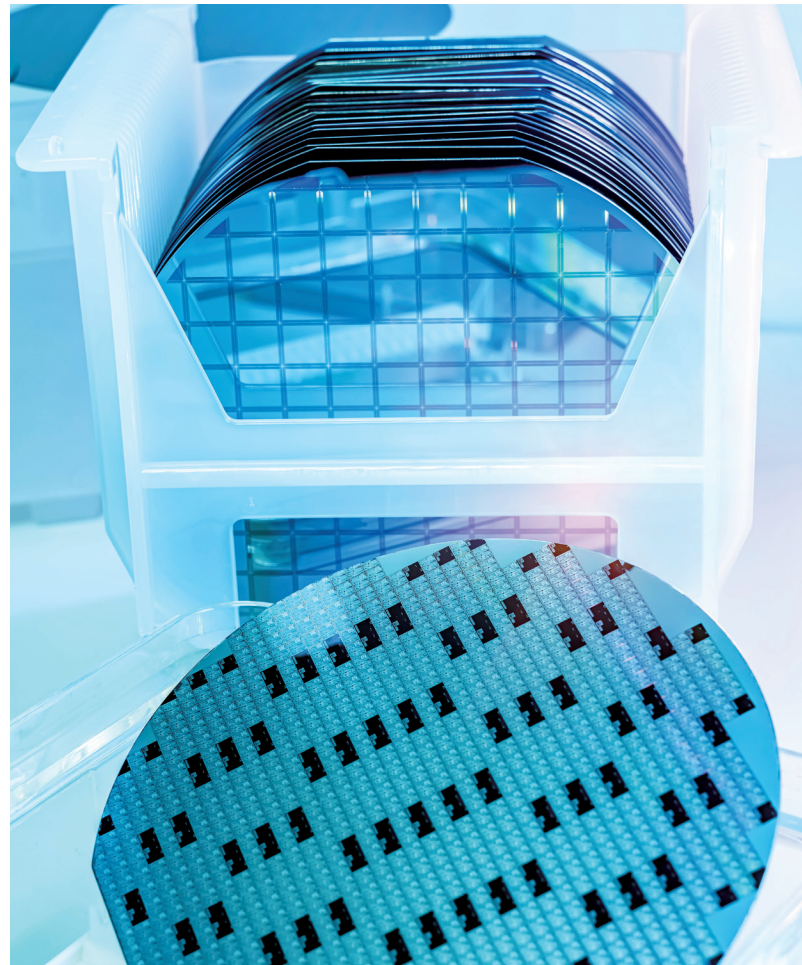
Outstanding chemical resistance, low outgassing, low particle generation, etch resistance, wet bench chemistries, applications where FFKM may be overengineered.

Recommended Temperature Range:

- -15°F to 400°F (-26°C to 204°C)

Features & Benefits:

- Outstanding high purity
- Very low particle generation and ion content
- Cost effective alternative to FFKM
- Good chemical/plasma resistance
- Improved cleanliness compared to fluorocarbon (FKM)
- Performance up to 204°C/400°F
- Products include O-rings, molded shapes, and bonded product



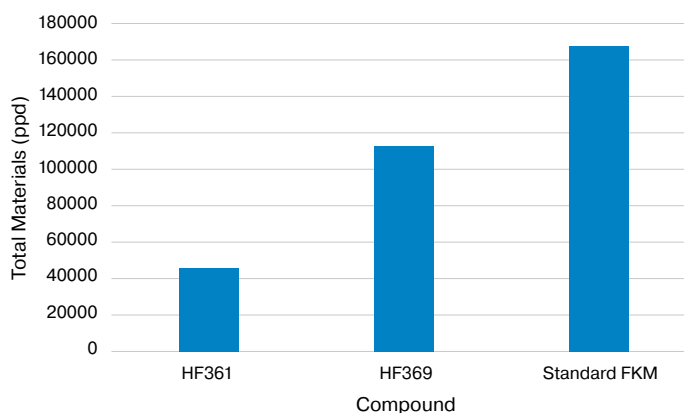
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Original Physical Properties	Test	Results
Hardness, Shore A, pts.	ASTM D2240	70
Tensile Strength, psi	ASTM D1414	977
Ultimate Elongation, %	ASTM D1414	214
Modulus @ 100% Elongation, psi	ASTM D1414	295
Specific Gravity	ASTM D297	1.87
Compression Set	Test	Results
22 hrs @ 392°F (200°C)	ASTM D395	19
70 hrs @ 392°F (200°C)	Method B	34
168 hrs @ 392°F (200°C)		54
Compression Set	Test	Results
22 hrs @ 446°F (230°C)	ASTM D395	31
70 hrs @ 446°F (230°C)	Method B	54
168 hrs @ 446°F (230°C)		93
Chemical Compatibility	Test	Results
C ₄ H ₈ O (MEK), 70 hrs @ Room Temp	ASTM D471	
Hardness Change, pts.	Method B	35
Tensile Strength Change, psi		78
Ultimate Elongation Change, %		40
Volume Change, %		188
Heat Age	Test	Results
70 hrs @ 446°F (230°C)	ASTM D471	
Hardness change, pts.		5
Tensile Strength Change, psi		8
Ultimate Elongation Change, %		1

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ICP-MS Ash Data



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