

# Precision Polymer F70C

Fluorosilicone

Precision Polymer Engineering Ltd.

Message:

Blue Fluorosilicone Rubber, 70 °IRHD. Fluorosilicone rubber having methyl, vinyl and fluorine substituent groups on the polymer chain. Excellent heat resistance and low temperature flexibility. Suitable for sealing petroleum oils and hydrocarbon fuels. Fluorosilicones are widely used in aircraft fuel systems.

General Information			
Features	Flexibility at low temperatures		
	Heat resistance, high		
Uses	Aircraft applications		
	Seals		
Appearance	Blue		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	230	%	ASTM D412, ISO 37
Compression Set			
175°C, 22 hr	21	%	ASTM D395B
175°C, 22 hr <sup>1</sup>	21	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 70 hr)	-6.0	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (200°C, 70 hr)	-14	%	ASTM D573, ISO 188
Change in IRHD Hardness in Air (200°C, 70 hr)	3.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	225	°C	
Low Temperature Resistance - TR10	-57	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -55°C (-67°F)			
NOTE			
1.	Type B		

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