

# Precision Polymer V61C

Fluoroelastomer

Precision Polymer Engineering Ltd.

## Message:

V61C is a fluoroelastomer (FKM) material developed to offer increased efficiency and service life in low temperature applications.

V61C extends the operational performance of FKM seals by a full 15°C lower than is possible with traditional FKM grades and sets a new industry benchmark in low temperature performance.

V61C exhibits the same chemical and mechanical properties as conventional FKM grades and is available in almost any sized O-ring (standard and non-standard) and custom designed components.

### Key Attributes

With a glass transition of -40°C (-40°F), V61C offers the widest operating temperature range of -51°C to +225°C

Low compression set giving excellent seal performance

Good elongation properties making fitting easier even at low temperature

Excellent resistance to petroleum, oil, silicone and di-ester liquids

### Typical Applications

Valves and pumps in cold operating environments

Seal applications that are exposed to cold situations

Applications that demand high variations in temperature

General Information			
Features	Low compressive deformability		
	Low temperature resistance		
	Oil resistance		
Uses	Pump parts		
	Low temperature application		
	Valve/valve components		
	Seals		
Appearance	Black		
Hardness	Nominal Value	Test Method	
IRHD Hardness	58	ASTM D1415, ISO 48	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	210	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	18	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	10	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-1.5	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (250°C, 72 hr)	5.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Glass Transition Temperature	-40.0	°C	

Maximum Operating Temperature	225	°C
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#### Additional Information

Minimum Operating Temperature: -51°C (-60°F)

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