

# Perlast® G70H

Perfluoroelastomer

Precision Polymer Engineering Ltd.

## Message:

Description Perlast® G70H provides optimal performance in high-temperature, chemically and mechanically demanding environments. This highly reinforced material offers extended seal life, offering low plasma etch rates in flat panel and thin-film solar CVD processes and the high mechanical strength needed to cope with the high forces repeatedly applied in these large scale applications.

Perlast® G70H is available as fully moulded O-rings (any size up to 2m/6.5ft internal diameter) and fully moulded formed slit valve door seals up to 3m in length for generation 10 and above.

- Key Attributes
- Excellent plasma resistance
  - High temperature performance
  - High mechanical strength
  - High abrasion resistance
  - Extremely low out-gassing properties
- Typical Applications
- Slit valve door seals
  - ISO valve seals
  - Load lock seals
  - NW / KF / ISO O-rings

General Information			
Features	The degassing effect is low to no		
	High strength		
	Good wear resistance		
	Good chemical resistance		
	Heat resistance, high		
Uses	Valve/valve components		
	High temperature application		
	Seals		
	Solar panel		
Appearance	White		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	9.30	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	14.7	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	200	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	17	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	310	°C	
Coefficient of Linear Thermal Expansion	4.00E-4		
Additional Information			

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Minimum Operating Temperature: -15°C (+5°F)

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#### Recommended distributors for this material

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