XL18.6-9-2015

Technical Datasheet

Applied Seal's specialized manufacturing produces the only black Perfluoroelastomer O-Rings such as PERFREZ® XL18 in a dedicated clean room

As one of a specialized line of Perfluoroelastomers developed for the harsh environments of the Semiconductor Industry, PERFREZ® XL18 will outlast standard materials that impact process integrity.



This material is designed for strength, resiliency and relative cleanliness. PERFREZ® XL18 is an all-purpose material that can be an upgrade to most of the standard, less suitable sealing elements not acceptable for the stringent requirements of the Semiconductor, Solar and 'Clean' industries.

Features and Benefits

- High Temperature capabilities
- Peroxide Curing System
- Exceptional Heat Resistance
- Broad Chemical Resistance



Semiconductor Applications

- Deposition: CVD, APCVD,
- HDPCVD, RPCVD, SACVD
- Plasma Etch: oxide and metal
- Ashing
- > Ion Implant
- ▶ RTP
- Lamp Anneal

Physical Properties

Color	Blac		
PROPERTIES	ASTM	VALUE	
Hardness, (Shore A)	D2240	80-/+5	
Tensile Strength psi, (MPa), min	D1414	2683 (18.5)	
Elongation, %, min	D1414	155	
Modulus at 100% psi, (MPa), min	D1414	1638 (11.3)	
Minimum Operating Temperature	-30°C	-30°C	
Maximum Operating Temperature	280°C		

^{**}EVEN THOUGH ELONGATION PROPERTY IS INDICATED, MOST PERFLUROELASTOMER MATERIALS SHOULD NOT BE STRETCHED FOR OPTIMAL PERFORMANCE.

Note: color variations may be observed in parts. Variations are considered to be cosmetic and inherent as a result of curing process, not indicative for foreign matter and is not expected to have an adverse effect on the performance of the part in service.



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