

## Process Technologies Inc Viton® Extreme™ Compound 2001 Sanitary Gasket/O-Ring

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Process Technologies Viton® Extreme sanitary gaskets and O-Rings are produced from formulated Viton® Extreme ETP-600S fluoroelastomer. This unique material is produced with Advanced Polymer Architecture. (APA) It represents a proprietary advance in fluoroelastomer technology developed by DuPont Performance Elastomers. Viton Extreme sealing elements exhibit excellent resistance to steam and to attack by an exceptionally broad variety of chemicals and fluids. They can solve the most challenging chemical applications in the pharmaceutical and biotechnology industries. Sterilization processes used by pharmaceutical, biotechnology, food and beverage manufacturers frequently use steam or caustic chemicals or a combination of both. These aggressive conditions put special demands on commonly used sanitary gasket materials such as EPDM, silicone, PTFE and bisphenol-cured FKM. EPDM is capable of providing excellent steam resistance, but exhibits relatively poor resistance to some commonly used cleaning fluids. Seals made with silicone may provide good resistance to a wide variety of cleaning fluids, but have relatively poor steam resistance. PTFE seals offer excellent resistance to steam and chemical attack, but because of their plastic nature, can creep under stress. Bisphenol-cured FKM has good steam resistance but is less resistant to some caustic sterilization processes. Process Technologies offers its Viton Extreme compound 2001 in all sanitary gasket sizes for Tri-Clover® Tri-Clamp® Information provided by Process Technologies Inc

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Process-Technologies-Inc-Viton-Extreme-Compound-2001-Sanitary-GasketO-Ring.php](http://www.lookpolymers.com/polymer_Process-Technologies-Inc-Viton-Extreme-Compound-2001-Sanitary-GasketO-Ring.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength at Break	15.96 MPa	2315 psi	ASTM D412
Elongation at Break	198 %	198 %	ASTM D412
100% Modulus	0.007439 GPa	1.079 ksi	ASTM D412
Compression Set	27 % @Temperature 200 °C, Time 252000 sec	27 % @Temperature 392 °F, Time 70.0 hour	25% Deflection, in Air % of original deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-26.0 °C	-14.8 °F	

Descriptive Properties	Value	Comments
Color	Black	
Compatibility for Chemicals	Acetone	Good

Descriptive Properties	Ammonia Value	Not Recommended Comments
	Hydrochloric Acid	Excellent
	Hydrofluoric Acid	Limited
	Hydrogen Peroxide	Excellent
	Isopropyl Alcohol	Excellent
	Nitric Acid	Excellent
	Phosphoric Acid	Excellent
	Sodium Hydroxide	Excellent
	Sodium Hypochlorite	Excellent
	Steam to 400°F (204°C)	Limited
	Sulfuric Acid	Excellent

## Contact Songhan Plastic Technology Co.,Ltd.

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