



FLUORAZ® 799

SANITARY GASKETS

Sanitary gaskets made from Fluoraz® 799 provide a level of performance in SIP and CIP systems that surpasses all other elastomers. While EPDMs and FKMs can provide a seal for extended periods, changes in physical properties can have adverse effects beyond simple volume swell. A decrease in hardness or drop in modulus signals a reduction in compressive strength. If a sanitary gasket is retorqued to the installation specification, the gasket will be compressed at a greater level than desired, resulting in increased intrusion into the process stream. An increase in hardness/modulus and a drop in elongation means embrittlement. The seal will be undertorqued, resulting in either leaks or cracking.

Fluoraz 799 is specifically formulated for use in sanitary gaskets where gasket intrusion and service performance in steam and caustic environments is paramount. Fluoraz 799 metal and TOC extractables are an order of magnitude lower than premium competitive FKM formulations, ensuring little or no contamination into the process stream. As with all other sanitary gaskets developed by Greene Tweed, Fluoraz 799 sanitary gaskets are designed for minimal intrusion, even under extreme installation conditions.

Fluoraz 799 is also available in O-rings and custom shapes where high durometer hardness is desired.

FEATURES & BENEFITS

- Low TOCs and metal extractables—Superior seal life in SIP and CIP systems
- Superior steam and caustic resistance up to 450°F (232°C)—Minimal intrusion into the process stream
- High compressive strength—Reduced cost of ownership, seals require minimal inspection

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- Full traceability
- Passes USP Class VI <88>, USP Cytotoxicity <87>, USP Heavy Metals <231> and Physicochemical Complete for plastics <381> and tested to Physicochemical-Elastomeric Closures <661>

TYPICAL PROPERTIES		
Physical Properties	ASTM Method	Typical Value
Color		Black
Specific Gravity	D297	1.65
Hardness, Shore A, Points	D2240	90
Mechanical		
Elongation, %	D412	120
Modulus @ 100% Elongation, psi (MPa)	D412	2,625 (18)
Tensile Strength @ Break, psi (MPa)	D412	3,000 (20.7)
Thermal		
TR 10/50, °F (°C)	D1329	44°F (7°C)
Service Temperature Range, °F (°C)		20°F to 450°F (-7°C to 200°C)

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.