

Fluoraz 784

Polytetrafluoroethylene

Greene, Tweed & Co.

Message:

Sanitary gasket made from Fluoraz® 784 work well in SIP and CIP applications where a low durometer elastomer compound is needed. While EPDMs and FKMs can provide a seal for extended periods, change 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 ot the installation specification, th 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 784 is formulated for use in sanitary gaskets and other applications where low sealing force is required, such as sealing sight glasses or as a seal between nonmetal parts. Fluoraz 784 is FDA and USP Class VI compliant, making it a versatile compound for both pharmaceutical and other hygienic fluid handling applications. Fluoraz 784 metal and TOC extractables are an order of magnitude lower than premium competitive FKM formulations, ensuring little or not contamination into the process stream. Fluoraz 784 cna be used as a sanitary gasket in standard applications as long as the torque used to install the gasket is minimal (hand tight).

Fluoraz 784 is alos available in O-rings and custom shapes where a low durometer hardness is desired.

General Information			
Features	Good Chemical Resistance		
	Good Heat Seal		
	Low Extractables		
	Low Hardness		
	Steam Resistant		
Uses	Gaskets		
	Pharmaceuticals		
	Seals		
Agency Ratings	FDA Unspecified Rating		
	USP 87		
	USP Class VI		
Appearance	Tan		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.62	MPa	ASTM D412
Tensile Strength (Break)	19.8	MPa	ASTM D412
Tensile Elongation (Break)	340	%	ASTM D412
Thermal	Nominal Value	Unit	
Service Temperature	-7 to 232	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

