Detectaseal® XS7H

Silicone

Precision Polymer Engineering Ltd.

Message:

Detectaseal® is the latest advance in contamination detection and containment. This unique range of metal detectable elastomer compounds has been developed specifically to meet the stringent demands of the pharmaceutical and food processing industries.
Detectaseal® fragments as small as 2-3mm can be easily identified by in-line metal detection equipment used to detect product contaminated by process lines.
The Detectaseal® range includes Nitrile, EPDM, Silicone and Fluoropolymer (FKM) elastomer compounds (all FDA-compliant) available in blue and black, which allows the most appropriate material to be selected for every application.
Detectaseal® compounds can be moulded into O-rings and custom components.
Key Attributes
Early detection and containment of contamination: Reduced product loss, Increased productivity
Blue seals to assist in easy identification
Excellent mechanical properties and sealing efficiency
Exceptional oil and heat resistance
FDA-compliant (CFR21.177.2600 paragraphs A - F)
USP Class VI approved to Suffix 88 121°C
Free from animal-derived ingredients (ADI)
Typical Applications
Static sealing applications
Food processing and bakery equipment
Pharmaceutical drug manufacturing equipment
Bioscience equipment

General Information	
Features	Heat resistance, high Oil resistance Compliance of Food Exposure No kinetic components
Uses	Non-specific food applications Seals Drug
Agency Ratings	FDA 21 CFR 177.2600 USP Class VI
Appearance	Black Blue

Hardness	Nominal Value		Test Method
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1.80	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	8.60	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	500	%	ASTM D412, ISO 37
Compression Set (175°C, 22 hr)	19	%	ASTM D395, ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (175°C, 168 hr)	12	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (175°C, 168 hr)	-10	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (175°C, 168 hr)	-2.0		ASTM D573, ISO 188
Thermal	**Nominal Value**	**Unit**	
Maximum Operating Temperature	200	°C	
Additional Information			
Minimum Operating Temperature: -60°C (-76°F)			

Recommended distributors for this material

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