Detectaseal® XN7A

Ethylene Propylene Diene Terpolymer

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 water and steam resistance
FDA-compliant material suitable for dry food contact applications
Free from animal-derived ingredients
Typical Applications
Static sealing applications
Food processing equipment
Pharmaceutical drug manufacturing equipment
Bioscience industry

General Information			
Features	Steam resistance Compliance of Food Exposure No kinetic components Low or no water absorption		
Uses	Non-specific food applications Seals Drug		
Agency Ratings	FDA Food Exposure, Not Rated		
Appearance	Blue		
Hardness	**Nominal Value**		**Test Method**
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	7.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	250	%	ASTM D412, ISO 37
Compression Set (100°C, 24 hr)	55	%	ASTM D395, ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (100°C, 70 hr)	-20 - 20	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (100°C, 70 hr)	-40 - 40	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (100°C, 70 hr)	15	ASTM D573, ISO 188

Thermal	Nominal Value	Unit
Maximum Operating Temperature	120	°C

Additional Information
Minimum Operating Temperature: -40°C (-40°F)

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