

# Detectaseal® XE7A

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 to be used in static applications.

**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 (ADI)

**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		
	Drug		
Appearance	Black		
	Blue		

Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	150	%	ASTM D412, ISO 37
Compression Set (70°C, 22 hr)	30	%	ASTM D395, ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 70 hr)	-25 - 25	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (100°C, 70 hr)	-25 - 25	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (100°C, 70 hr)	10	ASTM D573, ISO 188
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Thermal	Nominal Value	Unit
Maximum Operating Temperature	150	°C

#### Additional Information

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

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