

# Detectaseal® XE7H

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 x-ray and 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

3A Sanitary Standard 18-03 Class 2 compliant

Free from animal-derived ingredients

### Typical Applications

Static and dynamic 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	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	220	%	ASTM D412, ISO 37
Compression Set (125°C, 22 hr)	18	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	150	°C	
Additional Information			

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

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