# Detectaseal® XV7A

Fluoroelastomer

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, Silicone, EPDM 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 resistance to oils and other chemicals
FDA-compliant elastomer materials
Free from animal-derived ingredients
Typical Applications
Static sealing applications
Food processing equipment
Pharmaceutical drug manufacturing equipment
Bioscience industry

| General Information | |
|---|---|
| Features | Good chemical resistance<br>Oil resistance<br>Compliance of Food Exposure<br>No kinetic components |
| Uses | Non-specific food applications<br>Seals<br>Drug |
| Agency Ratings | FDA Food Exposure, Not Rated |
| Appearance | Black<br>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) | 150 | % | ASTM D412, ISO 37 |
| Compression Set (200°C, 22 hr) | 25 | % | ASTM D395, ISO 815 |
| **Aging** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Change in Tensile Strength in Air (250°C, 72 hr) | -25 - 25 | % | ASTM D412, ISO 37 |
| Change in Ultimate Elongation in Air (250°C, 72 hr) | -25 - 25 | % | ASTM D412, ISO 37 |
| Change in IRHD Hardness in Air (250°C, 72 hr) | 10 | | ASTM D573, ISO 188 |

| Thermal | Nominal Value | Unit |
|---|---|---|
| Maximum Operating Temperature | 200 | °C |

| Additional Information |
|---|
| Minimum Operating Temperature: -20°C (-4°F) |



## Recommended distributors for this material

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