

# FoodPro™ E75F1

A NEW GENERATION OF FOOD CONTACT EPDM MATERIAL



## A CIP and SIP compatible EPDM ideal for food contact and critical applications

Involved in sealing food, beverage, healthcare, and medical applications since the 1960s, Trelleborg Sealing Solutions focuses on meeting new challenges with revolutionary products and materials.

Evolution in food processing and increasing requirements in food-contact materials continually drive innovation in sealing products. Most of our formulations are proprietary and specifically engineered to meet the extraordinarily high demands of the food and beverage industry, especially related to consumer safety and satisfaction.

Maximizing the usability of Ethylene Propylene Diene Rubber (EPDM), FoodPro™ E75F1 is optimized for use in food and beverage processing applications. Characterized by high chemical resistance, the material demonstrates long life in polar media along with compatibility with alkaline cleaning media.

Tests prove E75F1 to be the best choice in many applications, such as liquid dairy processing at high temperatures. Due to its compliance to global standards and regulations, it accelerates our customers' performance, enabling use of the same material in all major geographies.

### Special Features

- Compression and injection moldable with 2-component and rubber-to-metal capabilities
- Good Manufacturing Practice (GMP) implemented in manufacturing and compounding

### Application

- Separators
- Decanters
- Valves
- Seat valves, double-seated valves
- Pipe couplings
- Aseptic flange connections
- Filling machines
- CIP/SIP cleaning equipment

### Standards and regulations

- Compliant with regulations and industry standards:
  - › **U.S.** FDA CFR 21, Section 177.2600 (including infant formula)
  - › **European Union** Regulation (EC) 1935/2004
  - › **European Union** Regulation (EC) 2023/2006
  - › **Rubber specific EU member state regulation:** Dutch Regulation on packing and consumer articles
  - › **People's Republic of China:** GB 4806.1-2016, GB 4806.11-2016, GB 9685-2016
  - › 3-A Sanitary Standard Class I low fat tolerance rubber
  - › USP 87 & USP 88
  - › REACH Regulation (EC) 1907/2006
  - › ADI – No animal derived ingredients
  - › Manufacturing according to 2023/2006 GMP

# FOODPRO™ E75F1

General data	E75F1
Basic polymer	EPDM
Color	black
Hardness	72 +/- 5 Shore A
ASTM code	M3 BA708 A14 B13
Temperature range	-45 °C to +150 °C -49 °F to +302 °F

Properties	Standard	Specification	
		E75F1	Unit
Density	DIN EN ISO 1183-1	1.20 +/-0.02	g/cm <sup>3</sup>
		0.043 +/-0.0007	lb/in <sup>3</sup>
Tensile strength		≥ 8.0	MPa
		≥ 1,160	psi
Elongation at break		≥ 150	%
Compression set 24 h / +150 °C, 24 h / +302 °F	DIN ISO 815-1 B	≤ 25	%
Low temperature behavior Tr 10 point	TBS 00036	< -40	°C
		< -40	°F

## Compatibility with CIP/SIP media

