

Elast-O-Pure EP75 Black for Pharmaceutical and Bioprocessing Industries

Elast-O-Pure EP75 Black ethylene-propylene elastomer was developed by James Walker to meet the stringent requirements of the pharmaceutical and bioprocessing sectors. Our confidence in promoting this material is based on some ten years of successful supply into the pharmaceutical and bioprocessing industries.

Features:

- Independently tested in accordance with, and conforms to United States Pharmacopoeia (USP) 28 Class VI.
- Compounded to give extremely low extractables. The Total Organic Carbon (TOC), or the amount of water-extractable materials, is 20% of the level typically found in EPDMs of this class!
- Very low compression set, so ideally suited for the manufacture of 'O' rings, hygienic clamp fitting seals and other items where long-term retention of sealing forces is required.
- Excellent resistance to steam sterilisation – ideal for Sterilised-In-Place (SIP) processes.
- Excellent chemical resistance, including acid and alkaline cleaners used in Clean-In-Place (CIP) systems.
- Excellent release properties from stainless steel after prolonged contact at elevated temperatures.
- Available as 'O' rings, custom mouldings, sheet and precision cut gaskets.



Technical Data

Typical properties of Elast-O-Pure EP75 Black

Property	Unit	Value
Hardness	IRHD	76
Tensile strength	MPa	16.4
Elongation at break	%	130
Compression set, 168 hours @ 100°C	%	6.0
Compression set, 168 hours @ 125°C (typical autoclave temperature)	%	11.4
Total Organic Carbon (TOC)	ppm	13.4



TOC TESTING TO USP661

Elast-O-Pure EP 75 Black gave an average TOC value of 13.4ppm. Whilst there is no upper limit in the USP document, this is well within the 'industry accepted maximum' of 50ppm.

Elast-O-Pure EP75 Black was tested in accordance with, and meets the requirements of United States Pharmacopoeia (USP) 28 Class VI.

Full reports of the testing against the various aspects of compliance are available on request.

Technical Support

James Walker works constantly at the forefront of materials science and fluid sealing technology to create engineered solutions to industry's problems.

We have unrivalled experience in the design, development and manufacture of a wide range of general and high performance elastomers. In these areas, the in-house expertise of James Walker Technology Centre is backed by academic bodies, technological centres of excellence and commercial laboratories.

We are willing to partner with equipment manufacturers in the pharmaceutical and bioprocessing sectors to develop, prototype and evaluate materials and/or specific components for custom applications.

Flexible Manufacturing

Our extensive range of production techniques and plant provides us with total flexibility of manufacture. This enables us to select precisely the correct production route for each of the vastly different types, sizes and quantities of elastomeric items that our clients want.

James Walker Quality

Quality design, quality manufacture and quality service are paramount throughout our worldwide operation. No effort is spared to achieve the highest possible standards.

Our quality systems are third party registered to BS EN ISO 9001:2000. We are also regularly assessed and quality-approved by a wide range of industry bodies and individual customers — including multinational corporations, utilities and government organisations.

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