James Walker

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

Elast-O-Pure® EP75 Black ethylene-propylene-diene 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 over 30 years of successful supply into the pharmaceutical and bioprocessing industries.

Features:

- Independently tested in accordance with, and conforms to, United States Pharmacopoeia (USP) 30 Class VI.
- Class leading performance with regard to extractables; independently tested TOC values significantly lower than comparative materials.
- 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

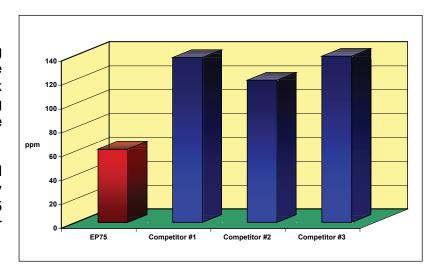
Property	Unit	Value
Hardness	IRHD	76
Tensile strength	MPa	16.4
Elongation at break	%	130
Compression set, 168 hours @ 100°C	%	6.0
Compression set, 168 hours @ 125°C (typical auto	% oclave temperature	11.4 e)



Total Organic Carbon value

When independently tested, following extraction procedures in accordance with USP 381, Elast-O-Pure® EP75 Black demonstrated significant, class-leading performance in comparison to its three main competitors.

Whilst there is no specified limit stated in the USP document, the remarkably low TOC value for Elast-O-Pure® EP75 Black minimises any potential for contamination.



Elast-O-Pure® EP75 Black was tested in accordance with, and meets the requirements of, United States Pharmacopoeia (USP) 30 Class VI.

A detailed Statement of Compliance for Elast-O-Pure® EP75 Black is available to customers on request.

Technical Support

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 precisely select the correct production route for each of the vastly different types, sizes and quantities of elastomeric items that our clients require.

James Walker Quality

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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BS EN ISO 9001:2000