

EPSeal®



BEVERAGE CAPS & CLOSURES



TASTE FREE SEALING SOLUTIONS FOR THE FOOD & BEVERAGE INDUSTRY

Introduction

EPSeal thermoplastic elastomers are custom made liner sealing compounds for the food and beverage industry. They are PVC free and conform to FDA and EU regulations. A range of compounds have been developed with series dedicated to different types of closures including crown corks, aluminium closures, both roll on and roll on pilfer proof, plastic closures, both out shell and in shell liner moulding.

Consumer appeal

EPSeal compounds give excellent organoleptic results ensuring neutral taste properties, a key requirement for sensitive filling goods like mineral water.

Excellent sealing characteristics are combined with the optimal elasticity and softness necessary for each individual closure and packaging system, be that PET, glass, returnable or one way.

They offer consistent short, medium and long term opening torques which provides consumer friendly functionality and also make it easier for children and senior citizens to open the bottles.

Solutions are available for carbonated soft drinks, beer, wine, fruit juice and milk based beverages. Including versions that perform ideally after cold fill, hot fill, pasteurisation or sterilisation processing. For beverage promotion opportunities, we also offer laser compatible compounds throughout the range.

Product highlights

- Excellent organoleptic results
- Superior sealing
- Low migration values
- Consistent opening torques
- Conform to FDA and EU regulations for food contact
- Approvals with major international beverage companies
- Efficient processing on all standard lining machines
- PVC Free
- Recyclable
- Suitable with the whole range of beverage processing methods from cold fill to sterilisation

Consistent high quality

Our computerised weighing and metering systems, combined with a customised machine configuration ensure we manufacture the same high quality time and time again.

Stringent and frequent testing during manufacturing is part of our standard operating procedure. We also have independent laboratories monitor our products for food grade conformity.

Ease of processing

EPSeal TPE compounds have excellent processing characteristics allowing for fast and efficient production.

Applications

- Crown corks
- Aluminium roll on
- Aluminium roll on pilfer proof
- PE or PP caps in shell moulding
- PE or PP caps out shell moulding

Technical support & product development

Years of research and development, testing and commercial use ensure EPSeal compounds deliver optimum processing and end use application performance.

We deliver solutions in the field through a highly trained team of technicians. Their support and material expertise will help you deliver faster results whilst minimising trial and testing times.

Custom made for you

Customer specific solutions, manufactured from quality raw materials and compounded under exact and consistent conditions, this is what makes us a trusted and reliable partner for the beverage industry,

Our caps and closures team work hand-in-hand with customers to tailor compounds to your specific application. Our knowledge and experience in this area means we are familiar with evolving legislation and application criteria, particularly in regard to sealing, sensoric and migration values

Our customers manufacture beverages with a pure and natural taste; EPSeal compounds keep them that way.

For further information about our EPSeal TPE compounds please contact info@epseal.de



EPSeal® 100



Sealing compounds for crown corks

The EPSeal 100 series is designed for crown corks and can be used for carbonated beverages including lemonades, beer, mineral water, juices and milk based drinks.

Different versions accommodate all the beverage processing systems including sterilisation. Additional versions address steel down-gauging as well as twist off crown applications.

Our laser marking versions support beverage promotion strategies.

EPSeal® 300



Sealing compounds for aluminium closures

The EPSeal 300 series was developed for aluminium screw closures. Different versions are optimised for a wide range of beverages for example mineral water, wine, lemonades and milk based drinks.

The 300 series includes versions for cold fill through to sterilisation and additionally for returnable or one way packaging systems. Included in this series are very low migration versions for sensitive application areas such as mineral water. A variety of lubricant packages address different applications leading to consistent and reliable consumer friendly closures whilst accommodating the special needs of children and senior citizens.

EPSeal® 700



For closures using the out shell liner moulding system

The EPSeal 700 series for PP or PE closures is designed for the special requirements of the out shell moulding liner system.

There are versions for both carbonated soft drinks and the premium segment of mineral waters where very low migration is required.

Additionally, laser marking versions are available for beverage promotional campaigns.

EPSeal® 800



For plastic closures using the in shell liner moulding process

The EPSeal 800 series was developed for PE and PP closures specially designed for the in shell moulding liner technology. The series includes versions for cold fill, pasteurisation and hot fill beverage treatment systems.

This series also includes versions with different rheological values to address the special processing requirements of different lining machine types. An assortment of lubricant packages addresses the spectrum of closure and liner profile designs but all lead to a neutral taste and odour sealant whilst remaining consumer friendly and reliable.

About HEXPOL TPE

We are at the forefront in the development and manufacture of custom formulated thermoplastic elastomers (TPE) and complimentary compounds.

Our family delivers a trusted combination of material know-how, R&D, production capability and comprehensive technical services. Alongside European and Asian production and product development facilities, as part of the HEXPOL group of companies, we share an extensive global footprint covering EU, Asia and NAFTA, enabling us to support our customers worldwide.

A comprehensive product portfolio covering TPS, TPO, TPV, TPU, soft PVC, cork compounds and masterbatch is led by global brands Dryflex®, Mediprene®, Lifoflex®, EPSeal®, Lifolit®, Lifocork®, Lifobatch® and Lifoprene®. We support OEMs, moulders and designers at all stages of product development in the medical, electronic, automotive, caps & closures, construction and consumer markets.

Contact us...

This product guide serves as an overview of our products; we are continuously testing ingredients to create new material combinations with enhanced characteristics. Use this guide as an introduction to our products, if you do not see what you are looking for, please contact us and we will be happy to discuss your specific requirements.



ELASTO Sweden
Sweden
t +46 532 60 75 00
f +46 532 60 75 99
info@elasto.se

ELASTO UK
UK
t +44 161 654 6616
f +44 161 654 2333
info@elasto.co.uk

ELASTO Sales Office
France
t +33 1 60 43 17 17
f +33 1 60 43 11 13
info.fr@elastotpe.com

ELASTO China
Part of HEXPOL Compounding (Foshan)
China
t +86 757 2291 5100
f +86 757 2291 5149
info@elasto.cn



Müller Kunststoffe
Germany
t +49 9571 94894 0
f +49 9571 94894 90
info@mueller-kunststoffe.com

Mediprene®, Dryflex®, Lifoprene®, Lifoflex®, Lifocork®, Lifolit®, Lifobatch® and EPSeal® are registered trademarks property of the HEXPOL group of companies. We provide written and illustrated advice in good faith. This should only be regarded as being advisory, and does not absolve the customer from doing their own tests and trials, to determine the suitability of the material for the intended applications. We retain the right to make changes without prior notice.

HEXPOL TPE

For further information or
to download this and other
publications please visit
www.hexpoITPE.com



www.hexpoITPE.com