

# EPSeal®



*Sealing compounds for 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
- Plastic closures in shell moulding
- Plastic and aluminium closures out shell moulding
- T-stoppers

### 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, organoleptics and migration values.

*Our customers manufacture food & 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](mailto: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. Oil free grades are also available.

## EPSeal® 300

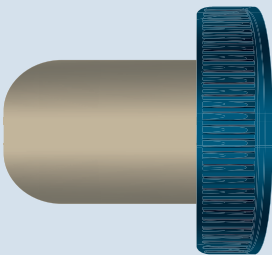


### TPE sealing compounds for aluminium closures

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® 400



### TPE compounds for synthetic wine corks and T-stoppers

The EPSeal 400 series was developed for synthetic wine corks and T-stoppers for spirits. Various grades are available for both extrusion and injection moulding process. The addition of foam masterbatch enables the user to reach individual customer specifications.

The optimal slip systems we have developed allow for consumer friendly removal from the bottle mouth.



## EPSeal® 700



### TPE sealing compounds for out shell systems

The EPSeal 700 series are for PP or PE closures using the out shell compression moulding system and also tape extrusion process.

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

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.

For further information about our EPSeal TPE compounds please visit [www.epseal.de](http://www.epseal.de) or contact us at [info@epseal.de](mailto:info@epseal.de)

# HEXPOL TPE

## About us

The HEXPOL TPE family is a leader in the development and manufacture of thermoplastic elastomers (TPE) and complimentary compounds.

With a strong heritage in the TPE market our companies include established names such as ELASTO and Müller Kunststoffe. We deliver a trusted combination of material know-how, R&D, production capability and comprehensive technical services. As part of the HEXPOL group of companies, we share an extensive global footprint covering EU, Asia-Pacific and NAFTA, enabling us to support our customers worldwide.

A comprehensive product portfolio includes TPS, TPO, TPV, TPU, soft PVC and cork compounds and is led by global brands Dryflex®, Lifoflex®, Mediprene®, EPSeal®, Lifoprene®, Lifolit® and Lifocork®. 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.

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