

mediprene®

TPE for medical
applications




ELASTO
A HEXPOL TPE COMPANY

The mediprene® concept

Mediprene thermoplastic elastomers (TPE) are suitable for a wide variety of uses in the medical and pharmaceutical market with new applications being developed every day.

Mediprene TPE compounds combine the performance of vulcanised rubbers with the processing properties of thermoplastics, delivering sophisticated design opportunities through a wide and flexible range of products.

But our Mediprene concept does not start and end with the product. It encompasses the strategy for how we work.

From our dedicated '*Mediprene team*', with specialist knowledge and expertise of the medical market. Through product development, raw-material selection, regulatory compliance, to production controls, traceability, reproducibility and change management.

Our Mediprene concept offers customers highly customisable materials, originating from medical raw materials with high biocompatibility status and compounded under clean conditions. Maximising the probability that their devices will pass relevant medical tests.

This is what makes us a trusted and reliable partner for the medical industry.

mediprene@elasto.com
www.mediprene.com

Strict raw material selection policy

- SEBS/SBS where representative grades have passed USP Class VI
- Medicinal white oil complying with EP
- Plastic that has passed USP Class VI
- Colour masterbatch made from raw materials that have passed USP Class VI or corresponding parts of ISO 10993

Proven biocompatibility

- Representative grades from the Mediprene 500M series have passed cytotoxicity tests according to ISO 10993-5 and USP Class VI

Clean, consistent production

- Documented cleaning procedures
- Traceability (raw materials, compounding, properties)
- Reproducibility
- ISO 13485 accreditation

Change control

- In case of change or discontinuation of a raw material/compound, we can make a volume corresponding to customer 2-year forecast available (valid for standard range and with exception for Force Majeure situations)
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The mediprene[®] family at a glance...

Please use this guide as an introduction to our Mediprene concept & product family.

Here we have included a short overview of several of the Mediprene ranges. Every day our development engineers are also formulating customized solutions to fulfill specific customer requests.

As its impossible to say everything about our products here, we also have a comprehensive library of product data, processing, sterilization and application information available to download from our website.



mediprene[®] 500m standard range



Special features

- Translucent
- Hardness from 0 ShA to 62 ShD
- Good compression set
- Adhesion to PP and PE in 2K applications
- Suitable for injection moulding and extrusion

Application examples

- Face masks/Airway management
- Resealing membranes/ stoppers
- Connectors
- Seals
- Soft touch
- Patient comfort/wound care

For product data please visit www.mediprene.com or email mediprene@elasto.se



mediprene[®] 500m transparent range



Special features

- Transparent and crystal clear grades
- Hardness from 30 to 90 ShA
- High melt flow
- Adhesion to PP and PE in 2K applications
- Suitable for injection moulding, blow moulding and extrusion

Application examples

- Face masks/Airway management
- Functional orthodontics
- Transparent soft touch

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mediprene[®] 500m plunger seal range



Special features

- Translucent or black opaque
- Hardness from 43 to 73 ShA
- Adhesion to PP and PE in 2K applications
- Suitable for injection moulding

Application examples

- Plunger seals for single use syringes

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mediprene[®] of oil-free compounds



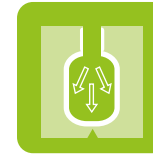
Special features

- Transparent and crystal clear grades
- Hardness from 40 ShA to 40 ShD
- Low level of potential leachables/extractables
- Kink resistant
- Adhesion to PP and PE in 2K applications
- Suitable for injection moulding and extrusion

Application examples

- Tubing
- IV set components
- "Stick to skin" with double-layer adhesive tapes
- Transparent soft touch

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mediprene[®] bm TPE for blow moulding



Special features

- Translucent
- Wide hardness range achievable
- From soft/elastic to rigid/impact resistant
- Adhesion to PP and PE in 2K applications
- Designed for extrusion blow moulding

Application examples

- Bottles
- Balloons
- Bags

For product data please visit www.mediprene.com or email mediprene@elasto.se



mediprene[®] a TPE for 2K applications



Special features

- Opaque
- Hardness from 35 to 65 ShA
- Adhesion to substrates like ABS, PC, PETG and SMMA in 2K applications
- Suitable for injection moulding and extrusion

Application examples

- Seals
- Closures
- Grips/Handles
- Soft touch on engineering plastics

For product data please visit www.mediprene.com or email mediprene@elasto.se



mediprene[®] coloured TPE



Special features

- Only medical grade colour masterbatches made from raw materials that have passed USP Class VI or corresponding parts of ISO 10993 are used
- Transparent or opaque colours can be achieved
- Excellent colour dispersion
- Enhanced appearance/Design possibilities
- Brand/product identification

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About us

The HEXPOL TPE group of businesses is a global leader 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. 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.

info@hexpolTPE.com • www.hexpolTPE.com



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