



**MEDICAL &  
HEALTHCARE  
SOLUTIONS**

Thermoplastic Elastomers for  
Medical Applications

Zylog is India's leading manufacturer & solution provider of thermoplastic elastomer compounds based on a range of elastomer and polymer chemistries.

For over 35 years, we have been offering a wide range of tailor-made thermoplastic elastomer compounds that includes Thermoplastic Vulcanizates (TPE-V / TPV), Thermoplastic Elastomers – Styrene (TPE-S), Thermoplastic Olefins (TPE-O / TPO), and blends and alloys.

With commercialized & approved applications in Automotive, Medical & Healthcare, Wire & Cable, Consumer Goods, Building / Construction, Toys, Appliances, Agriculture & Animal Management, Industrial uses; today, Zylog has a large portfolio of products, applications & customers.

<b>+ 570</b> Unique Material Formulations	<b>+ 180</b> Colour Formulations	<b>+ 300</b> Applications across diverse markets	<b>+ 400</b> Customers, OEMs & End Users
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Our plants at Pune and Nasik in India, are equipped with state of the art production & quality processes. The Research & Development team develops new materials & compounds on-site using lab scale as well as production scale equipment. Strong Management of Change process is an integral part of our daily production cycle that controls formulation lock, lot traceability, extended record and sample retention as well as notification of change. Our facilities are IATF 16949 certified.

Zylog's expertise across application development, understanding end-use performance criteria, regulatory compliances is recognized and appreciated by customers in India and globally and we place strong emphasis on maintaining this.

You can benefit from our expertise in customizing products focused on your specific needs. Please visit us to learn more about our thermoplastic elastomer solutions across diverse end use markets.

**NEOPLAST™**  
THERMOPLASTIC VULCANIZATE

**NEOFLEX™**  
THERMOPLASTIC ELASTOMER

**NEOLLOY™**  
THERMOPLASTIC POLYOLEFIN



Applications in medical & healthcare industry demand varied performance from thermoplastic materials. Unique technologies such as lower sliding friction force, static dissipation, radiopacity, high chemical resistance to drugs, carrier solvents, liquids & disinfectants, high clarity, free from BPA, Latex, PVC & ADM (animal derived materials) are critical for application performance & to meet medical safety protocols.

With over 35 years of experience, Zylog has developed a range of TPE grades for applications in medical devices that cater to these wide performance requirements, replacing incumbent materials - thermoset rubber (Silicone, polyisoprene, butyl), PVCs, EVA, NR & EPDM.

Our standard grades provide time tested performance, while our R&D can customize formulation to suit unique requirements providing engineers flexibility in designing components that provide ease of use and patient comfort.

Zylog's range of medical grades meet requirements of:

- Biocompatibility, Cytotoxicity, & Hemocompatibility per ISO 10993
- Food contact compliance per US FDA 21, REACH & SVHC Compliance
- Gamma, EtO & Steam sterilization
- Hardness range from 10 A to 40 D
- Optimized Compression Set & Sealing properties, Re-sealability & Non-coring
- Low Breakaway & Sliding Friction Force
- Clarity, flexibility, good flow, tactile feel, & colourable

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#### APPLICATIONS

- Syringe Plunger Seal / Gasket
- Medical Stopper
- Dampners & Gaskets
- Medical Tubing
- Overmoulding Grades (Grips)
- Device Housing & Enclosures
- Films, Bags & Bottles



#### Syringe Plunger Seal / Gasket: Suitable for 1, 3, 5, 10, 20, 50 ml & above

- Meet Leakage & Aspiration test
- Low Sliding Force (Low COF)
- EtO, Gamma & Steam Sterilization
- Replaces NR, EPDM, EVA, PVC & other thermoset rubber gaskets



#### Medical Tubing

- Translucent & Clear Grades
- Flexible, Resists Kinking
- EtO, Gamma & Steam Sterilization
- Low rate of Gas Permeability



#### Medical Stopper for IV bags & resealable bottles

- Good Coring Resistance & resealability
- Low levels of extractable impurities
- EtO, Gamma & Steam Sterilization
- Replaces NR, Silicone, Polyisoprene & other thermoset rubbers



#### Device Housings

- Translucent, Opaque & Clear Grades
- Elastic & Soft
- Bondable on polar & non-polar materials



#### Over-moulded Grips

- Elastic & Soft
- Bondable to Polar and Non-Polar materials
- Grippy & tactile feel with ergonomic design capabilities

## About ZYLOG

Established in 1984, Zylog is India's leading innovator & manufacturer of custom made TPV, TPE, TPO compounds. Zylog is also forward integrated into manufacturing extruded sheets and rolls under its brand names of CompSpec™ & GreenShield™. We invite you to visit our website to learn more about us.

All production facilities are IATF 16949 certified and follow strict environmental, health and safety standards, along with a very strong regulatory support, quality and management of change process.

Customers count on Zylog's unique problem solving abilities and flexible attitude towards doing business, helping customer meet requirements of diverse applications / markets. We have set and maintain an industry leading high service performance standard which is a key objective for us.

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THERMOPLASTIC VULCANIZATE

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THERMOPLASTIC ELASTOMER

**NEOLLOY™**  
THERMOPLASTIC POLYOLEFIN

**CompSpec™**  
TPO SHEETS & COMPOSITE LAMINATES

**GreenShield**  
An Eco-Friendly Membrane System

