



## OVERVIEW

Thermoplastic Elastomers, or TPE's, are the premier choice of soft, flexible materials due to their robust properties, cost effectiveness, and design flexibility. As a global leader in compounding, Teknor Apex offers the broadest portfolio of TPE technologies in the industry, including styrenic block copolymer (SBC) compounds, polyolefin blends (TPE-O or TPO), thermoplastic vulcanizates (TPE-V's or TPV's), polyurethane compounds (TPE-U or TPU), and other specialty blends.

**MONPRENE<sup>®</sup> IS A TPE BRAND THAT CONSUMERS TRUST. IT CAN BE CUSTOMIZED TO MEET A SPECIFIC AESTHETIC OR FUNCTIONAL REQUIREMENT, WHICH GRANTS DESIGNERS, OEMS, AND PROCESSORS ALIKE SUPERIOR FLEXIBILITY WHEN DESIGNING NEW PRODUCTS.**

## CHARACTERISTICS AND PROPERTIES

By taking a more focused approach to address each market's needs, Teknor Apex's TPE product lines are aligned with the industries that they serve. Standard grades often meet the applicable regulations and specifications for that industry. As a result, Teknor Apex's TPE compounds are likely to be pre-qualified for your application, which can accelerate your speed to market with new products.

- Standard grades available for quick sample turnaround
- Wide hardness range (from Shore OO to Shore D)
- Light, natural color for superior colorability
- Typically suitable for skin contact
- Resistant to household chemicals and cosmetics
- Broad thermal performance
- Food contact grades available
- Customized formulations to meet critical end use requirements
- UV and ozone resistant
- Pre-drying not necessary

### Packaging

Creating innovative packaging that meets stringent performance requirements, while also satisfying sustainability goals and maintaining cost effectiveness, can prove to be difficult without the ideal material for your application. From specialty TPE blends used in PE and PP closures in a hot-fill liner process, to high performance TPEs with superior oxygen and moisture barrier properties used in Aseptic-filled protein drink applications or ROPP aluminum closures, Teknor Apex TPE's can provide the solution.

Applications include:

- Hot-Fill
- Aseptic-Fill
- Retort
- ROPP
- Cold/Ambient-Fill
- Crowns



## Consumer Products

From food contact applications and housewares, to personal electronics, pet products and white goods or appliances, Monprene® TPE's add cushioning, protection, or a soft-touch grip to everyday consumer products. Monprene® TPE's can be formulated to achieve various tactile qualities, such as a smooth, silky feel or a tacky surface for an enhanced grip. Often ideal for 2-shot or insert molding, Monprene® TPE's exhibit excellent adhesion to rigid plastic substrates for more comfortable handles, tighter seals, and anti-slip surfaces. Monprene® can be custom colored to match any palette, reinforcing your product's brand.

Applications include:

- Personal Care
- Toys
- Writing Instruments
- Sports & Leisure
- Utensil Grips
- Gaskets, Knobs, & Anti-Skid Parts for Kitchen Appliances
- Wearable Electronic Devices
- Accessories & Protective Cases
- Sump Pump Seals
- Earbuds & Headphones
- Cable Jacketing
- Mats
- Anti-Skid Bowls
- Grooming Products
- Door Seals & Gaskets
- Overmolded Grips & Buttons
- Dog Toys
- Feet
- Motor Mounts
- Footwear
- Furniture
- Food Saver Seals
- Utensil Grips
- Drum Roller
- Anti-Vibration Pads
- Hoses and Connectors
- O-Rings & Gaskets
- Shock Absorbers
- Filter Seals



Soft-touch grip to everyday products

## Industrial

For industrial applications, Monprene® TPE's are very elastic and remain flexible even at sub-zero temperatures, making them a premier option for sealing applications in various fluid management systems, from automatic sprinkler gaskets to HVAC seals. These versatile materials can be customized for different end use environments, like improved abrasion resistance or UV stability, and can be filled or unfilled, depending on your cost and performance needs.

Applications include:

- Pipe Seals
- HVAC Components
- Sink Gaskets
- Sprinkler Gaskets



Monprene® TPE's provide outstanding performance and UV stability

Learn more at [nexeoplastics.com/teknorapex/monprene](https://nexeoplastics.com/teknorapex/monprene) or contact us to request a free sample.

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