

ASEP[™] Thermoplastic Polyurethane (TPU)

PRODUCT BROCHURE



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ASEP™ TPU

Introduction

ASEP™ TPU is ASEP's brand of thermoplastic polyurethane (TPU), synonymous with high reliability, consistent product quality, and cost efficiency. It can be extruded to manufacture tubing, cable sheathing, belts, films, and profiles, and is also suitable for blow molding and injection molding. Whether aromatic or aliphatic, featuring extreme softness, glass fiber reinforcement, flame retardancy, or high transparency, ASEP™ TPU has demonstrated its versatility across all sectors of industry for many years.

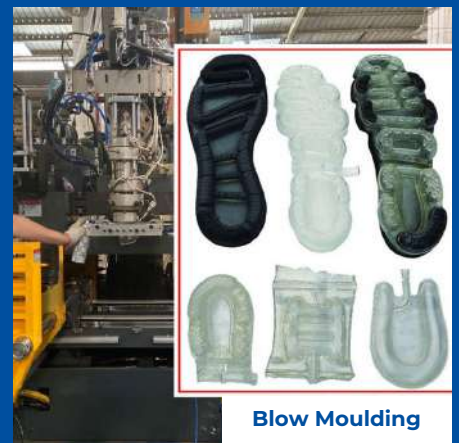
What material shall we use?

The answer can be critical to success or failure, since the material must sustain what the product promises. And moreover: besides its physical properties the material should be easy and economical to process, compatible with the environment, and ultimately capable of recycling. ASEP TPU provides the market with a material with outstanding potential for innovation. We are able to meet complex specification for demanding applications.

The ASEP TPU has especially good physical properties, making it suitable for demanding applications in virtually all sectors of industry.



Injection Moulding



Blow Moulding



Processing



Extrusion



What does ASEP TPU offer?

Depending on the manufacturer, TPUs are also produced for the consumer market. The materials can be colored, and some manufacturers also offer translucent TPU.

- Flexible at low temperatures
- Elastic and resistant to buckling
- Good resilience
- Tight bending radii (for hoses)
- Resistant to oils, greases & ozone
- Good dimensional stability
- Abrasion and wear resistant
- Resistant to weathering
- Resistance to microbial attack
- Sound and vibration damping
- Hardness from 55 Shore A to 74 Shore D
- Good resistance to penetration
- Glass-fibre reinforced version



Leisure & Sport Equipment

Thanks to its unique combination of extreme flexibility at low temperature, good impact and environmental resistance, as well as transparency, TPUs are the material of choice for many sport and leisure parts.

- **Paintability**
- **Crystal-clear transparency**
- **Abrasion-resistant**
- **Flexible at low temperature**
- **Good resilience**
- **Flexural strength**
- **Elastic and durable**



Typical applications in the footwear sector



Typical applications in the leisure activities

Tubes & Hoses

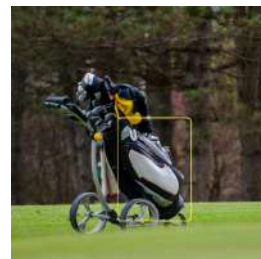
Highly demanding applications, such as pneumatic tubing or hydraulic / wire bond hoses, require tough, resistant materials with outstanding processing behavior in extrusion. TPUs offer excellent durability and wear properties for applications like hoses for solids handling. Thermoplastic Polyurethane bring flexibility over a wide range of temperatures, in addition of their chemical, mechanical and kink resistance.



Typical applications

Combination with Other Materials

TPU is a versatile material that can be combined with other materials in order to produce a flexible, low-temperature, resilient, elastic, and durable item.



Typical applications

Product Applications



Laptop Feet

- Easy adhesion •
- Plasticiser-free •
- Anti-slip resistance •
- Good wear resistance •
- Sustainable solution available •

Mobile Cover

- Anti-microbial
- Plasticiser-free
- Excellent clarity
- Stain resistance
- Low blooming risk
- Good UV resistance
- Chemical resistance



Product Applications

Speaker Headphone

- Plasticiser-free
- Low blooming risk
- Good UV resistance
- Anti-skin sensitivity
- Excellent stain resistance
- Design of freedom flexibility
- High translucency & easy colouring
- Good bonding to PC, PC/ABS substrate

Smart Watches

- Plasticiser-free
- Low blooming risk
- Good UV resistance
- Anti-skin sensitivity
- Excellent stain resistance
- Design of freedom flexibility
- Good bonding to rigid substrates
- High translucency & easy colouring



Product Applications

- 
- Superior dielectric properties
 - Anti-stain resistance grades available
 - Plasticiser-free
 - Sustainable alternatives available
 - Good UV resistance
 - Ease of processing & low blooming risk

Wearable Devices

Smart Devices

- Soft & silky touch sensation
- Anti-slip resistance
- Plasticiser-free solution
- Resiliency performance
- Excellent mechanical properties
- No blooming risk
- Easy coloring ability



Our Contact



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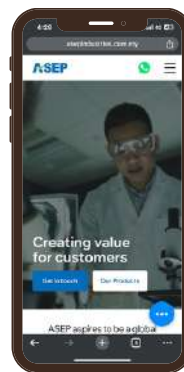
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