

A UNIQUE COMBINATION OF FLEXIBILITY, HIGH TEMPERATURE RESISTANCE AND STRENGTH

Arnitel® is a thermoplastic elastomer (TPE) with high temperature resistance, good processability and excellent elastic behavior. Arnitel belongs to the TPE subcategory of thermoplastic copolyesters (TPC). Arnitel® is increasingly being used as a lighter, smarter, greener alternative to conventional rubbers, reducing environmental impact and ultimately system costs.

ARNITEL® HAS A WIDE RANGE OF HARDNESSES, WHICH CAN REPLACE RUBBERS, METALS, LEATHER, AND OTHER THERMOPLASTICS. ARNITEL® DELIVERS SUPERIOR CHEMICAL, HEAT, AND WEAR RESISTANCE, ALONG WITH THE ABILITY TO BE RECYCLED.

CHARACTERISTICS

We offer Arnitel® across a full portfolio of grades, each designed to meet specific customer needs. That includes grades suitable for injection molding, blow molding and extrusion – as well as Arnitel Eco, a bio-based thermoplastic copolyester (TPE). Characteristics and properties found across Arnitel® product lines include:

- **Elasticity** - Arnitel® is a thermoplastic elastomer that combines the easy process of thermoplastics with the elasticity of a rubber. The soft Arnitel® materials show excellent elasticity and can be used as elastic fibers.
- **Thermal** - Arnitel® is extensively used in applications over a very wide range of temperatures. Arnitel® retains its mechanical properties at very low temperatures of -113°F (-45°C) right up to 302°F (150°C).
- **Heat Aging** - The Arnitel® C series shows outstanding high heat ageing properties and meets the most stringent performance and compliance needs, including hydrolysis and abrasion resistance. This series meets the severe ISO 6277 class D requirements for automotive wire and cable.

Mobility

Arnitel® offers a unique combination of flexibility, high temperature resistance and strength, with excellent processing characteristics, making it a reliable solution for tubes, hoses and clean air inlet ducts.

Applications include:

- Air brake tubes
- Vacuum brake tubes
- Clean air ducts
- Hot charge air ducts
- Cold charge air ducts
- Non-pneumatic tires



Consumer Goods

Arnitel TPC is a reliable solution for breathable outdoor clothing as it outperforms conventional microporous membranes. Moisture vapor can pass from the inside to the outside of garments, while the membranes remain 100% waterproof.

Applications include:

- Breathable outdoor clothing
- Athletic footwear



Electronics

Arnitel® has a proven track record in AC and DC cables. This product line offers consistent FR performance and supports virtually all color options. It is suitable for indoor and outdoor use and offers superior flexibility.

Applications include:

- AC cables
- DC cables



Medical

Envalior's Arnitel® VT solution meets the highest protection level standards in breathable materials to prevent healthcare professionals from exposure to infectious fluids and microbials. And Envalior's Arnitel® Care is specially engineered for manufacturing soft, durable medical devices that excel in high moisture and high-temperature conditions.

Applications include:

- Disposable medical gowns
- Disposable medical drapes
- Wound care dressings
- Catheters
- Ventilator tubing



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

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