Teknor Apex Engineering Plastics

Product Overview

Teknor Apex is your global partner for highly engineered thermoplastic materials. Our product portfolio spans a broad spectrum of thermoplastic performance, and in combination with industry leading technologies, allows us to provide you with the most optimized solution meeting your performance and cost requirements. Our expertise lies in designing solutions to address unique application requirements that cannot be met using standard materials.

If you’re facing performance issues with an existing part or looking for the right material for a new design, contact us for a custom solution. You can rely on Teknor Apex for high levels of service and support from concept to launch; in design, prototyping and process optimization.
PRODUCT PORTFOLIO

Whether you need one of our 80 automotive OEM-approved polyamides or a custom engineered solution, our products are tested to perform consistently in the most demanding transportation, industrial, electrical, and consumer applications.

Creamid® 9T:
Polyphthalamide (PPA) / High Temperature Nylon (HTN)
• Amongst the highest performing polyamides
• Superior mechanical performance at elevated temperatures
• Excellent hydrolysis resistance and lowest moisture absorption

Creamid® LT:
Polyamides for Long Term Thermal Aging
• Designed for extended exposure to high temperatures
• Solutions for hot air (>200 °C), hot oil (>150 °C), and hot coolant (>135 °C)
• Impact modified grades for flexible applications
• Reinforced grades for structural applications

Creamid® S:
Semi-Aromatic Polyamides
• Excellent alternatives to die cast metals
• Extreme strength and stiffness
• Outstanding surface aesthetics
• Retains properties after conditioning

Creamid® P:
Structural Polyamides
• Bridges the performance gap between standard PA 6 and PA 66
• Absorbs Nearly 1/3 less water at saturation than standard PA 6
• Improved mechanical strength and dimensional stability compared to standard PA 6

Creamid® A/B/C:
Specialty Polyamides
• Broad product portfolio based on PA 66, PA 6, and PA 66/6
• Regulated grades for direct food contact
• UL listed grades for E&E applications

Chemlon®:
Polyamides
• Broad product portfolio based on PA 66 and PA 6
• Widely recognized with extensive automotive OEM approvals
• Optimized grades for cost effectiveness

Createc:
Polyester Compounds (PET, PBT, PET+PBT Blend)
• High strength and stiffness
• High temperature and chemical resistance
• Excellent dimensional stability
• Superior surface aesthetics

Crealen:
High Performance Polypropylene Compounds
• Specialty grades for high impact toughness
• High temperature resistant grades for hot air (130°C)
• Flame retardant grades for E&E applications

Desmoflex®:
Glass Reinforced Rigid TPUs
• Glass reinforced for improved strength
• High impact toughness and low temperature resistance
• Excellent resistance to abrasion and wear
• Vibration dampening characteristics
ENHANCED TECHNOLOGIES

We combine a broad product portfolio with advanced modification technologies to deliver unmatched value to our customers. This unique expertise is what differentiates us from most other material providers; be it large resin companies or a regional compounding.

Cross-linkable Thermoplastics
This unique technology enhances the mechanical, thermal, electrical, and chemical performance of standard engineering thermoplastics like PA 6, PA 66, PPA, PBT, etc. allowing manufacturers to meet more demanding requirements. Cross-linkable materials are readily processed using standard thermoplastic molding equipment and tooling. Cross-linking offers up to 40% cost savings versus exotic resins like PEEK, PPS and LCP.

Products: Creamid® V and Createc® V

Sustainable Solutions
Teknor Apex can match the performance of standard materials with sustainable alternatives. We offer a broad portfolio of sustainable alternatives to PA 6 and PA 66, including solutions containing: post-consumer recycled (PCR) content, post-industrial recycled (PIR) content or bio-based materials derived from renewable resources. Specialty blends are also available to address the most demanding performance and aesthetic requirements, while still meeting sustainability goals.

Products: Recyclon®

Flame Retardant Solutions
Designed to meet the demands of the Electric and Electronic (E&E) industry; Teknor Apex FR solutions range from halogenated to non-halogenated systems, and can be customized to meet unique performance requirements.

Products: Creamid® FR and Crealen FR

Extrusion-grade Polyamides
Extrusion-grade polyamides based on PA 6 and PA 66 are engineered to deliver the optimum balance of flexibility, tensile strength, and melt strength. For applications requiring even more flexibility and improved chemical resistance, extrusion grades based on PA 610 and PA 612 are available.

Products: Chemlon® EXT

Overmolding Solutions
With expertise in compounding both thermoplastic elastomers and engineering thermoplastics, Teknor Apex is your premier partner for the most challenging overmolding designs.

Products: Creamid®, Chemlon®, Creablend

Specialty Polymer Blends
Our specialty blends combine multiple polymers to achieve hybrid properties not available from a single resin. Drawing from a wide palette of amorphous and semi-crystalline polymers, specialty additives and reinforcements, we optimize formulations to meet unique requirements. Our portfolio includes: PC+ABS, PC+PBT, PA+ABS, PP+ABS, and more.

Products: Creablend

Over 2500 hard/soft material combinations tested internally.
About Teknor Apex

The Teknor Apex Company, a privately-owned company founded in 1924, is one of the world's leading customer-specific plastic compounders. Teknor Apex produces flexible and rigid vinyl, thermoplastic elastomers, polyamides, specialty compounds, color masterbatches, chemicals and garden hoses.

The company is based in Pawtucket, RI, USA. It operates thirteen production plants worldwide: in the United States, Belgium, Germany, China and Singapore.