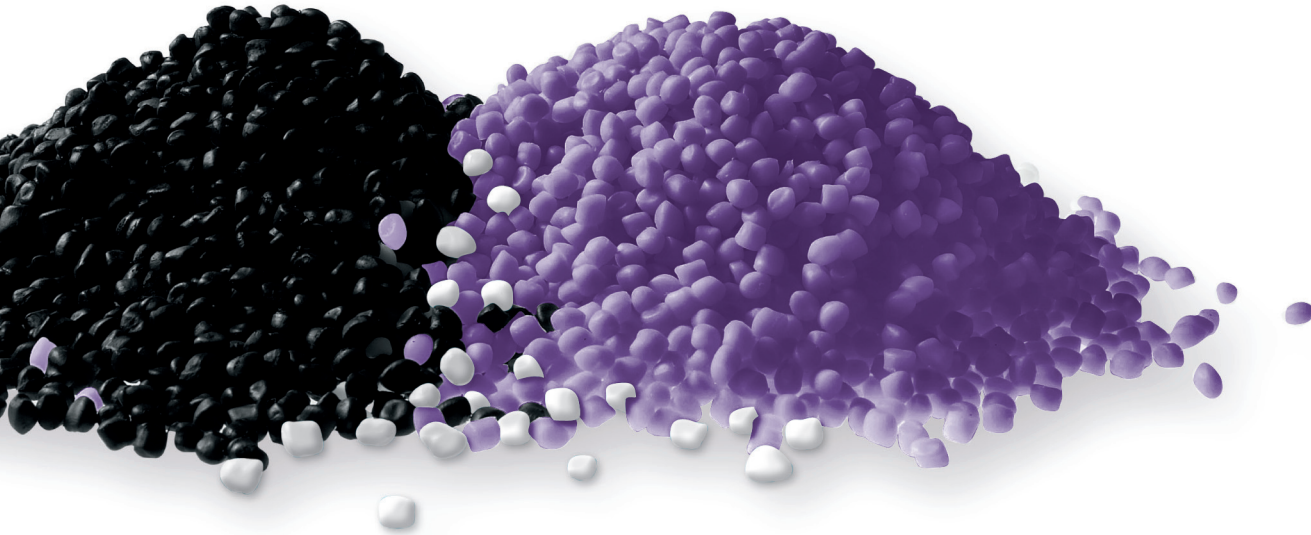




Wired for Performance



The Elexar® product line is one of the best known trade names for electrical and electronic thermoplastic elastomer (TPE) applications. Elexar® is produced by Teknor Apex, a leading global manufacturer of TPE compounds, with a track record of providing materials solutions that stretches over 75 years. We manufacture a wide range of different TPEs with consistent high quality, always seeking to understand our customers' needs to develop solutions. With over 25 years of proven reliability, Elexar® compounds are specified by the industry's top OEMs, cable manufacturers, and design engineers for extruded and molded goods.

About Elexar®

Available in both flame-retardant and non-flame retardant formulations, Elexar® is your best choice for flexible components in a broad range of electrical applications, with a strong focus on wire & cable and fiber optic applications. From portable power cables and retractable coil cords, to electrical consumer cables, Elexar® is the ideal solution. Our compounds can be processed using standard thermoplastic processing techniques such

as injection molding and extrusion. Elexar® offers a wide variety of standard grades ranging in hardness from around 55A up to low shore D. Although stock Elexar® grades are available, customization has always been our core competence and offering. In Teknor Apex you will find a full service supplier for all your TPE requirements. Our global reputation for world class partnership, quality, and dedication will guarantee successful operations on your production floor.



Safety and regulatory requirements

Elexar® TPEs include high-performance flame retardant compounds where RoHS compliance and UL V-0 ratings are standard, and all high-performance grades are designed to meet UL 1061 and pass the UL VW-1 vertical flame test for jacketing. UL 1581 continuous service ratings range from 105 to 125°C. Most grades are UL “yellow card” listed, meeting the requirements for outdoor weathering UV resistance, passing the UL 7-day 60°C oil resistance tests, and having brittleness temperatures well below -60°C.

Main Characteristics of Elexar®

Elexar® rubber-like compounds offer superior electrical properties coupled with excellent flexibility, toughness, and surface aesthetics. The compounds combine excellent low temperature properties with very good thermal stability. Furthermore, Elexar® offers good abrasion, tear, and tensile properties. These products do not require pre-drying and they are PVC and phthalate ester-free. They can be easily colored and printed. Elexar® is also fully recyclable and reprocessable, whether from process scrap or post-consumer waste. Finally, Elexar® shows excellent UV and ozone resistance.

Applications that last

Elexar® compounds are used in a wide variety of applications ranging from consumer cords, battery cables, and robotic cables, to connectors, grommets, and boots, to applications that meet very specific requirements including:

- Power cables (UL-62) SEO, SJEO, SJEOW, SJEOOW.
- GTO-15 gas tube and oil burner cable (UL-814).
- Deep-well submersible pump cable (UL-83) insulation and jacket.

The Elexar® product line meets a range of industry regulations, such as:

- RoHS compliance
- UL94 (V-0) rating
- UL1061
- 105°C-125°C ratings
- Yellow card listings

Customer Focus: From Concept to Production

Creating value in today’s market is no easy task. Now more than ever, design solutions that optimize material performance and processing efficiency are critical to success. At Teknor Apex, our goal is to match your

design and engineering expertise with our materials expertise in a way that provides the best solution at the lowest possible cost. On our website www.teknorapex.com/elexar you will find a number of our standard compounds for the wire and cable industry, but custom compounding is what Teknor Apex is all about. You can rely on us to formulate a compound precisely tailored to your production and end use requirements. If we don’t have the solution for you today, we will be happy to work with you to design one for you.

Other Teknor Apex TPE Products

Elexar® is one of six distinct product groups within the Teknor Apex TPE Division.

- Elexar®: Wired for Performance
- Medalist®: Medical Elastomers for Exacting Applications
- Monprene®: Unsurpassed Design Flexibility
- Sarlink®: Think Performance and Value
- Tekbond®: A Soft Touch for Tough Demands
- Telcar®: Top Performance for your Bottom Line

elexar®

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About Teknor Apex TPE

The Thermoplastic Elastomer Division of Teknor Apex Company (TA TPE) is the most diversified manufacturer of TPEs, offering seven broad product families based on generically distinct chemistries and operating plants in the US, Europe, and Asia. The processes used by TA TPE produce compounds that exhibit outstanding rubber-like properties with particular characteristics while being processable at high rates like any other thermoplastic, as well as being recyclable. Visit www.teknorapex.com/tpe to see the TPE product families.

Headquartered in Pawtucket, Rhode Island, US, the Division is an international supplier to the appliance, automotive, construction, medical-device, wire and cable, and other consumer and industrial product industries. Other plastics businesses of Teknor Apex include the Bioplastics, Nylon, Specialty Compounding, and Vinyl Divisions and Teknor Color Company. Visit www.teknorapex.com.

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