



## Product Guide

# Automotive Product Guide

### *Performance Solutions*

To create new products for demanding applications, and critical component protection, we depend on collaboration.

Our global team of experts is available for everything from on-site projects and consultations to presenting at conferences, in-house seminars and trade show events. Let our team help your team gain the competitive edge.

For more information on our capabilities beyond what's listed here, contact us at to see how we can help engineer a solution for your Automotive applications.

### *Top Products and Applications*

**Wire Harness:** Tubing, heat shrink, spiral cut, smoothbore tubing, corrugated tubing and braided fiber aid in protecting and routing critical wiring bundles.

**Fluid Transfer:** Convoluted and smooth-bore tubing are used for fuel supply, power steering, and flexible brake lines.

**Sensors / Fiber Optics:** Dual-Shrink®, heat shrink, convoluted, engineered surface tubing and spiral cut products are used to insulate and protect sensors, fiber optics and wiring.

**Electric Motor:** Together, PEEK Insulated Wire, PEEKshrink® and PEEK slot liners ensure long life and maximize efficiency in electric drives.

**Battery Systems:** PTE and FEP heat shrink are used for cell insulation.

**Manufacturing Aids:** FEP Lay-Flat® heat shrink is used for forming critical composite parts.



## Core Resin Properties

**260 - 200 °C (572 - 392 °F)**

### HIGH-PERFORMANCE

- Excellent Chemical Resistance
- High Strength-to-Weight Ratio
- High Continuous Temperature
- Great Electrical Properties
- Low Coefficient of Friction

**200 - 145 °C (392 - 293 °F)**

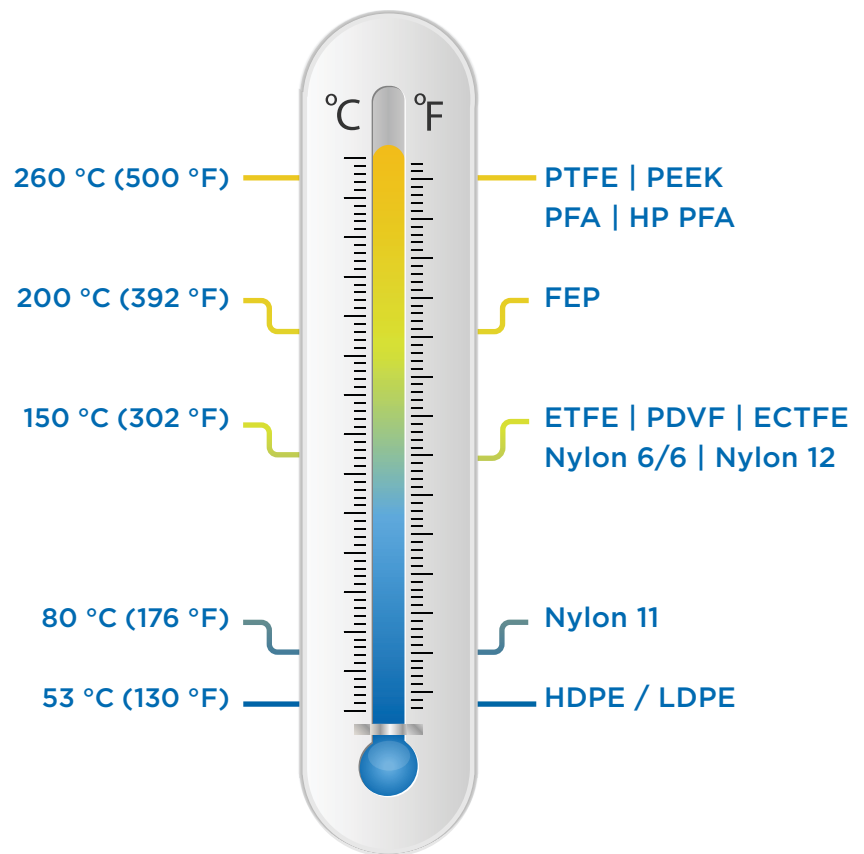
### ENGINEERING

- Moderate Temperature Resistance
- Good Chemical Resistance
- Good Strength

**145 - 0 °C (293 - 32 °F)**

### STANDARD

- Good Electrical Properties
- Low Water Absorption
- Lower Cost



## Top Products and Applications

### PRODUCTS

- Smoothbore tubing
- Convuluted tubing
- Heat shrink
- Monofilament
- Drawn fiber
- Custom profiles
- Insulated wire

### PRODUCT BENEFITS

- Chemically inert
- High temperature
- Excellent dielectric strength
- Fungus resistance
- Low volatile loss (smoke/toxicity)
- Abrasion resistant
- Flame resistant
- Resistant to stress cracking
- Low water absorption
- Weight reduction

### SERVICES

- Free sample program (Virtual Sample Locker)
- 24 hour quotes for standard products
- Secondary/Value-add services
- Custom colors
- Custom compounding of resins
- C of C on all shipments
- Full lot traceability
- PPAP (Production Part Approval Process)
- APQP (Advanced Quality Product Planning)

### CERTIFICATIONS

- ISO 9001
- ISO 13485
- AS 9100

