

Product Highlights

- Operating temperature up to +200°C (+392°F)
- Excellent abrasion resistance
- High temperature resistance
- Highly flexible and easy to install
- Lightweight and breathable textile design
- Outstanding fluids resistance

Typical Applications

- Hose & Tubing Applications
- Cable Assemblies
- Wire Harnesses



FlexGuard® 2135 is an expandable sleeve designed to provide mechanical protection for applications exposed to higher temperature environments. Constructed of PEEK (polyetheretherketone) monofilament guard strands and PPS (polyphenylene sulfide) support strands, this dual-monofilament blend provides an excellent balance of abrasion resistance, temperature resistance and installability.

Expanding up to three times its diameter, FlexGuard 2135 is easy to install and can accommodate a wide range of application sizes. The breathable textile construction allows fluids drainage and heat dissipation as well as prevents condensation.



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

Performance Data – FlexGuard® 2135

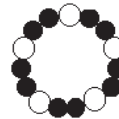
Property	Test Method	Result
Operating Temperature		+200°C (+392°F)
Heat Aging: 240 hrs @ 225°C	ISO 6722	No visible degradation or loss of flexibility
Flammability	FMVSS 302 D45 1333	Pass Self extinguishing Type B
Low Temperature Flexibility	SAE J2192	Pass -40°C (-40°F)
Fluid Resistance	D47 1924	No visible degradation or alteration after being exposed to the following test cycles: <ul style="list-style-type: none"> • Immersion for 15s at 23°C, followed by a drying period of: <ul style="list-style-type: none"> – 24h at 150°C: motor oil, automatic transmission fluid, manual transmission oil. – 24h at 23°C: zinc chloride, brake fluid. • Immersion for 48h at 70°C, followed by a drying period of: <ul style="list-style-type: none"> – 24h at 23°C: Urea of clean up Ad blue. • Immersion for 24h: <ul style="list-style-type: none"> – At 40°C, followed by a drying period of 4h at 23°C: for gazole, unloaded petrol 98, Std fuel C + 15% methanol, E85 bio ethanol. – At 70°C, followed by a drying period of 4h at 23°C, for windscreen washer. – At 118°C, by a drying period of 4h at 23°C, for engine coolant.

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Construction and Typical Product Characteristics

Abrasion Guard Yarn: Polyetheretherketone (PEEK) monofilament (Shown in white)

Resilient Support Yarn: Polyphenylene sulfide (PPS) monofilament (Shown in black)



End view (enlarged diameter) of FlexGuard 2135 showing guard strands (larger) and support strands (smaller, black) in a typical configuration.

Standard Sizes

Commercial Part Number	Recommended Application Range (mm)	
	Min Ø	Max Ø
FlexGuard 2135 3-C	2	6
FlexGuard 2135 6-C	3	10
FlexGuard 2135 TW 6-C	3	8
FlexGuard 2135 TTW 6-C	3	6
FlexGuard 2135 TW 10-C	5	12
FlexGuard 2135 TW 13-C	6	13
FlexGuard 2135 TTW 13-C	6	13
FlexGuard 2135 16-C	10	30
FlexGuard 2135 19-C	13	35
FlexGuard 2135 32-C	19	45
FlexGuard 2135 51-C	38	69
FlexGuard 2135 64-C	48	76

C = Color code: Black - 0

Abrasion Levels

Standard: Good TW: Better TTW: Best

Part Numbering System

Example	Description	Size	Color
	FlexGuard 2135	6	0 (black)

Availability

Standard sizes are listed here. Additional sizes could be available upon request.

Available in spools and custom cut lengths. Recommended cut lengths are in 5mm increments. Please see regional drawings for cut length tolerances.

Standard colors listed below table. Additional colors may be available.

Please consult your local sales representative for regional packaging details and standards.



United States: (1) 800 926 2472 • México: (52) 442 101 8100 • Brazil: (55) 19 3116 1600

EMEA: (33) 3 44 39 06 06 • Japan: (81) 45 330 0300 • China: (86) 21 6182 7560

Southeast Asia: (66) 35 276 400 • Korea: (82) 44 861 6368 • India: (91) 124 4784565

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