INDUSTRY STANDARD · NON-METALLIC

Bulk tubular expandable braid for wire harness protection

non-metallic braid selection guide

Non-Metallic Shielding
INDUSTRY-STANDARD • HIGH-TEMPERATURE

Principal Selection Criteria	General Duty / Abrasion Resistance				
Braid Part Number and Material Construction	**102-060** Monofilament FEP	**102-001 · 102-002** Monofilament PET Type FR	**102-020 thru -023** Monofilament Halar®	**103-013 · 103-080** Yarn, Nomex®	**102-080** Monofilament Ryton Type R-7
Halogen-Free	NO	HALOGEN FREE	NO	HALOGEN FREE	HALOGEN FREE
Temperature Range	-55°C to +200°C	-55°C to +125°C	-65°C to +150°C	-55°C to +200°C	-65°C to +180°C
Tensile Strength (PSI) Yield	3300	50,000	7000	90,000	19,000
Elongation Percentage	50%	20%	15%	25%	40%
Chemical Resistance	Excellent	Good	Excellent	Excellent	Excellent
Abrasion Resistance	Good	Good	Excellent	Good	Excellent
Weight / Duty (specific gravity)	Heavy (2.17)	Medium (1.38)	Medium (1.68)	Medium (1.58)	Light (1.25)
Flammability	Very Low	Flammable Self-Extinguishing	Very Low	Will Not Melt	Very Low
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* Values are based on .500 Dia. Braid. DuPont™ Nomex® and Kevlar® are trademarks or registered trademarks of E.I. duPont de Nemours and Company.

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Dimensions in Inches (millimeters) are subject to change without notice.

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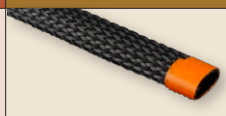
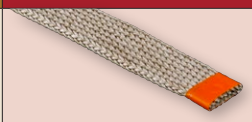
Economy		Temperature Tolerance		Fire Resistance	
					
102-073	**102-072**	**102-051**	**102-040 thru -043, 103-062,103-106**	**100-022**	**102-071**
Yarn Dacron®	Yarn Nylon	Monofilament PEEK	Yarn Bonded and Unbonded, Nomex®	Yarn PTFE-Glass	Yarn, Kevlar®
HALOGEN FREE	HALOGEN FREE	HALOGEN FREE	HALOGEN FREE	NO	HALOGEN FREE
-62°C to +125°C	-20° to +170°	-65°C to +260°C	-60°C to +240°C	-204°C to +482°C	-73°C to +160°C
10,000	12,400	13,000	90,000	450,000	400,000
12%	20%	38%	25%	5%	3.6%
Good	Excellent	Excellent	Excellent (Unbonded) Outstanding (Bonded)	Excellent	Excellent
Fair	Excellent	Excellent	Good (Unbonded) Excellent (Bonded)	Excellent	Good
Medium (1.38)	Light (1.14)	Light (1.3)	Medium (1.58)	Heavy (2.5)	Medium (1.44)
Flammable	Flammable	Very Low	Will Not Melt , Self-Extinguishing	Will Not Burn	Will Not Melt
26	25	22	30, 31, 29	35	24

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