

## PBVO/PGVO

PBVO/PGVO is an expandable braided sleeve constructed of PET (polyethylene terephthalate) monofilaments to which flame retardant additives are added to ensure compliance with the self-extinguishing rating, UL94-VO. It is available in black and grey, has a continuous operating temperature of -50° – +150°C and is available in sizes ranging from 3mm to 50mm and can be [cut](#) as required.

In addition to the mechanical protection, chemical resistance tensile and strengthening properties of standard PET braid, PBVO/PGVO expandable braid is UL94-VO rated. It is flexible, highly abrasion/cut and chemically resistant and readily expands over irregular shapes and bends before retracting. Also, being a braided jacket, it provides lightweight easy to apply protection that will not trap heat or moisture. It is often used in the mechanical protection and bundling of wire, cables, hoses and flexible pipes in all industries including harsh environments where VO rating is required.

## Technical Data

- **Operating Temperature** -50°C-+ 150°C
- **Flame Retardant:** Yes
- **Colours:** Black with grey tracer, Grey with black tracer
- **Sizes:** 3mm ? 50mm
- **Packing:** Reels, mini-reels, mini-packs, cut to length, cut sleeves
- **Approvals:** UL94-VO, RoHS Compliant
- **Applications / Industries:** General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive



Properties	Typical Values	Test Methods
General		
Operating Temperature	-50°C – + 150°C	
Short-term peak temperature	Up to 220°C	
Melt temperature	250°C	
Monofilament thickness	0.22mm	
Physical		
Tensile Strength	100 000psi	
Thermal		
Flammability	Pass	UL94-VO
Chemical		
Chemical resistance	Resistant to most chemicals including automotive fluids	
Fungus resistance	Open structure doesn't retain moisture and support mould growth	
Toxicity	Halogen free	
Opacity	Low smoke density	

Size (mm)	Supplied diameter (mm)	Application range (mm)
3	3.0	2.4 – 6.4
5	5.0	3 – 9
6	6.0	4 – 10
10	10.0	6 – 16
12	12.0	7 – 19
20	20.0	13 – 32
25	25.0	18 – 34
30	30.0	19 – 45
40	40.0	25 – 60
45	45.0	32 – 70
50	50.0	38 – 76

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