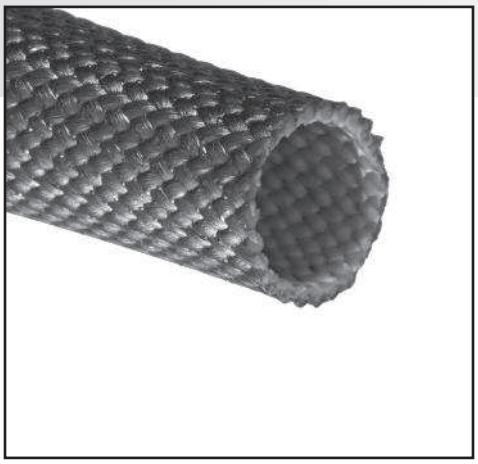
POLYCRYL PAC 10 ALU

Sleevings for thermal, electrical, mechanical & EMI applications



Applications

This tough abrasion resistant sleeving has good flexibility. Electrical properties are maintained after flexing. The sleeving is compatible with most insulating varnishes and is capable of short-term operation above its thermal classification.

Description

This is an insulating sleeving impregnated with acrylic, containing heat reflecting aluminium pigment. The aluminium impregnation reflects radiating heat and the polyester braid provides excellent insulating abrasion and cut-through porperties.

Features & Benefits

- Halogen Free
- Good antifray properties
- Excellent abrasion and cut-through resistance
- Thin wall, light weight construction
- Surface heat reflection

Operating Temperature

- -25°C to +180°C (3,000 h.)

Specifications

- IEC 60684 Sheets 320
- UL 1441

Put up

On spools of variable length, depending on the diameter of the sleeving. On request in cut lengths or spools.

Handling

Care should be taken to minimize dust formation during handling and cutting this glass based material as dust or broken particles may cause skin irritation. The use of barrier creams on exposed areas will minimize the risk of skin irritation. For product safety data and product disposal advice, see separate Safety Data Sheet.

Notes

This information and data is believed to be accurate and reliable. We place at your disposal the technical information necessary for the correct use of our products and offer the possibility of simulating in our laboratory the conditions of many applications, in order to advise on the suitability of our products. As conditions and methods of use are beyond our control, the user must confirm suitability before adopting our products for commercial use. We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.

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Dimensions

Reference	Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)	Standard Packaging (m)
PAC10AL005	0.5	NA	NA	400
PAC10AL010	1.0	+0.30	0.40	300
PAC10AL015	1.5	+0.30	0.40	300
PAC10AL020	2.0	+0.30	0.40	300
PAC10AL025	2.5	+0.30	0.40	200
PAC10AL030	3.0	+0.30	0.40	200
PAC10AL035	3.5	+0.30	0.40	200
PAC10AL040	4.0	+0.30	0.40	200
PAC10AL050	5.0	+0.30	0.60	200
PAC10AL060	6.0	+0.30	0.60	100
PAC10AL070	7.0	+0.30	0.60	100
PAC10AL080	8.0	+0.30	0.60	100
PAC10AL090	9.0	+0.50	0.60	100
PAC10AL100	10.0	+0.50	0.60	100
PAC10AL110	11.0	+0.50	0.70	100
PAC10AL120	12.0	+0.50	0.60	100

Note: Other diameters supplied upon request.

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Dielectric Strength

Test	Method	PAC 10 ALU 2,5 kV grade	
		Minimum	Average
IEC 60684	250 mm. Inst. B / D Central Value (kV)	0.6	0.8
IEC 60684	250 mm. Inst. B / D Lowest Value (kV)	0.5	0.7
UL 1441	25 mm. Inst. B / D (kV)	0.8	1.0

Technical Characteristics

Property	Test	Result
Heat Resistance	Bending after heating IEC 60684 Part 2 Clause 13 7 days @250º	No cracking or detachment of coating shall be visible and the original color shall be clearly recognizable
Longitudinal Change	IEC 60684 – Part 2 Clause 9 20 Minutes at 180ºC ±3ºC	5% max.
Cold Resistance	Bending at low temperature IEC 60684 Part 2 Clause 14 at -25°C	No cracking or detachment of coating shall be visible
Abrasion Resistance	Ø 0.5 mm, piano wire abrader, 1 kg weight, 20 mm amplitude 55, ±5 cycles/min.	30,000 cycles minimum
Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes
Thermal Insulation	Bundy SA Nº 1-006 R4: - 1 hour - emitter temperature: 250ºC - distance: 35 mm	Maintains an inside temperature of 75ºC (see graphic attached)