

sofamel

Product Technical Specifications

Model TPMA

Medium thermo-retractable tube with adhesive



Functionality

TPMA provides environmental protection to the cable cores of plastic and paper insulated cable terminations, and insulation over the connector area in cable joints rated up to 1kV. The insulating tubes are made from thermally stabilized, cross linked, weather resistant polymeric material.

Product Features

- Seals and protects cables and terminations.
- High resistance to impact and abrasion.
- Optional thermoplastic adhesive coating for complete environmental protection and insulation.
- Colour = BLACK

Thermal Tests

Shrink Temperature	120°C	IEC - 216
Heat shock (30 min 200° C)	No cracking / No flow	ESI 09-13
Heat Ageing (500 hrs 120° C)- Tensile Strength Ultimate Elongation	12 N/mm ² (min) 300% (min)	ASTM D-412 / ISO-37
Low Temp. Flexibility (- 40° C)	No cracking	ASTM D-2671

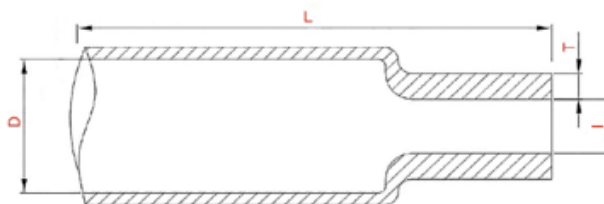
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D – Internal Diameter

l – Maximum Internal Diameter

L – Length



Code	Ref.	Contraction Ø mm	Colour	Length (m)	Thickness (mm)	Bag	Box
377100	TPMA-12/3	12 to 3	Black	1	2	1	75
377110	TPMA-22/6	22 to 6	Black	1	2,5	1	75
377120	TPMA-34/7	34 to 7	Black	1	2,5	1	60
377130	TPMA-40/12	40 to 12	Black	1	2,5	1	40
377140	TPMA-55/16	55 to 16	Black	1	2,7	1	25
377150	TPMA-75/22	75 to 22	Black	1	2,7	1	15
377160	TPMA-95/25	95 to 25	Black	1	3	1	10
377170	TPMA-115/34	115 to 34	Black	1	3	1	5
377180	TPMA-140/42	140 to 42	Black	1	3	1	5

Physical features

Specific Gravity	1.19 ± 0.2 g/cm ³	ASTMD - 1505
Water Absorption	0.5% (max)	ASTM D – 570
Tensile Strength	≥14.5 N/sqmm (min)	ASTM D – 412 / ISO 37
Ultimate Elongation	500% (min)	ASTM D – 412 / ISO 37
Hardness	43 ± 3 Shore D	ASTM D - 2240
Longitudinal Change	±10%	ESI 09 - 13
Shrink Ratio	3 : 1 (Min)	TP / QA / 61
Torching	No Split	TP / QA / 7

Electrical Features

Dielectric Strength	20 kV/mm (min)	ASTM D-149 / IEC-243
Volume Resistivity	1x10 ¹³ Ohm-cm (min)	ASTM D – 257 / IEC 93
Dielectric Constant	5 (max)	ASTM D-150 / IEC-250

Chemical Features

Fungus Resistance	No Growth	ASTM G - 21
Chemical resistance immersion in following liquids NaOH (40%), H ₂ SO ₄ (3%), Toluene acetone for 24 hrs at room temperature	Good (no change in appearance)	ISO 175