



PVC Tapes And Films Specification Sheet

Avans Tech · RuLin Industrial Park, Jintan, Changzhou, Jiangsu, China 213200 · info@avans-tech.com · WhatsApp 0086 178 1190 1731 · ISO 9001:2015

Electrical insulation fireproof and protective tapes produced to published thickness tensile and dielectric values.

PVC Warning Tape

PVC Warning Tape is a plasticized PVC film coated with a pressure-sensitive adhesive, supplied in 0.13 mm and 0.15 mm thicknesses at 45 mm width. It is used to mark walkways, hazard zones and pipelines in plants and warehouses where painted lines wear off and have to be repainted during production hours.

Parameter	Value
Thickness	0.13 mm and 0.15 mm
Width	45 mm
Roll Lengths	10 m 13 m 16 m 18 m 33 m
Model Codes	G1304 G1306 G1308 G1502 G1504 G1506 G1533 G1333 PE1333
Outer Diameter	94.5 mm to 115 mm by model
Tensile Strength	20 N/cm at 0.13 mm 21 N/cm at 0.15 mm
Elongation	150 percent at 0.13 mm 170 percent at 0.15 mm
Peel Strength	1.3 N/cm
Adhesion	0.30 kg/25 mm at 0.13 mm 0.36 kg/25 mm at 0.15 mm
Dielectric Strength	43 KV/mm
Temperature Rating	80 degrees C
Surface	Glossy wear-resistant
Shelf Life	12 months from production date

Self-Adhesive Fireproof Wrapping Tape

Self-Adhesive Fireproof Wrapping Tape model FSD-99 is a 0.7 mm by 60 mm by 5 m self-adhesive tape that chars on flame contact to form a fire-resistant carbonized layer over cable sheaths. It is applied to cable runs in substations, metros, tunnels and coal mines without affecting current-carrying capacity.

Parameter	Value
Model	FSD-99
Thickness	0.7 mm
Width	60 mm
Length	5 m
Tensile Strength Longitudinal	at least 3.0 Mpa
Elongation at Break	at least 500 percent
Low-Temperature Tensile	at least 60 percent at minus 15 degrees C
Char Height	2.5 m or less
Oxygen Index	at least 45 percent
Shelf Life	12 months from production date

Waterproof Insulating Composite Tape

Waterproof Insulating Composite Tape model FSD-77 is a 1.65 mm by 50 mm by 3 m tape rated for 35 KV insulation protection. It restores insulation and seals cable terminals, joints and branch clamps where water ingress is the failure mode, and holds up from minus 40 degrees C to 90 degrees C.

Parameter	Value
Model	FSD-77
Thickness	1.65 mm
Width	50 mm
Length	3 m
Rating	35 KV insulation protection
Tensile Strength	at least 1.7 Mpa
Elongation at Break	at least 500 percent
Breakdown Strength	at least 20 KV/mm
Volume Resistivity	at least 1×10^{14} at 20 degrees C
Dielectric Constant	5.0 or less
Dielectric Loss Tangent	0.05 or less
Temperature Range	minus 40 degrees C to 90 degrees C
Shelf Life	12 months from production date

Aluminum Protective Film

Aluminum Protective Film is a soft PVC film coated with a rubber-based sensitive adhesive, supplied in 0.12 mm and 0.20 mm and certified to ROHS. It is applied to aluminium and plastic-steel door and window profiles to keep surfaces clean through fabrication, transport and installation, then peels away without residue.

Parameter	Value
Thickness	0.12 mm and 0.20 mm
Elongation	150 percent
Adhesion	0.28 kg/25 mm at 0.12 mm and 0.32 kg/25 mm at 0.20 mm
Tensile	4.0 kg/25 mm
Certification	ROHS certified
Shelf Life	12 months from production date

PVC Wrapping Tape

PVC Wrapping Tape is supplied in two builds. The non-adhesive phase colour tape 1822 is 0.18 mm by 22 mm by 15 m in lead-free AAA-grade PVC film for harness winding and phase marking, withstanding 5000 V. The adhesive version 1522 is 0.15 mm by 45 mm by 22 m with a rubber-based pressure-sensitive adhesive for sealing and surface protection.

Parameter	Value
Model 1822 Non-Adhesive	0.18 mm x 22 mm x 15 m, outer diameter 73 mm
Model 1522 Adhesive	0.15 mm x 45 mm x 22 m
Withstand Voltage	5000 V
Breakdown Voltage	6500 V on 0.18 mm
Dielectric Strength	40 KV/mm on 0.18 mm
Tensile Strength	24 N/cm on 0.18 mm
Elongation	200 percent on 0.18 mm and 150 percent on 0.15 mm
Peel Strength	1.5 N/cm on 0.15 mm

Adhesion	0.4 kg/25 mm on 0.15 mm
Temperature Rating	0 to 80 degrees C on 0.15 mm
Insulation Use	below 600 V
Shelf Life	12 months from production date

PVC Self-Adhesive Tape

This self-adhesive range covers two rubber builds for cable joint work. The high-voltage waterproof SA series is 0.8 mm thick in 19 mm 23 mm and 50 mm widths rated 10 KV for terminals and joints. The EPR build SA-23 is 0.8 mm by 25 mm by 5 m rated 69 KV for primary insulation restoration on solid dielectric cables.

Parameter	Value
SA10	0.8 mm x 19 mm x 4.5 Y, outer diameter 82 mm, 10 KV
SA20	0.8 mm x 23 mm x 5 Y, outer diameter 85 mm, 10 KV
SA20S	0.8 mm x 50 mm x 5 m, outer diameter 85 mm, 10 KV
SA-23 EPR	0.8 mm x 25 mm x 5 m, outer diameter 85 mm, 69 KV
Breakdown Strength	at least 20 KV/mm
Volume Resistivity	at least 1×10^{14} at 20 degrees C
Dielectric Constant	5.0 or less
Operating Temperature Range	90 degrees C or below
Shelf Life	30 months from production date

PVC Wiring Tape

PVC Wiring Tape is a thin matte-surface harness film at 0.10 mm, supplied as flame-retardant and cold-resistant builds in 17 mm 19 mm and 24 mm widths. A separate DINP-plasticized automotive build is offered in 95, 105 and 115 micron with an 85 degrees C rating and ROHS 2.0 compliance for vehicle harness winding.

Parameter	Value
PWT 1020AFR	0.10 mm x 17 mm x 17 m, outer diameter 63.5 mm, matte flame retardant
PWT 1020AFR wide	0.10 mm x 24 mm x 17 m, outer diameter 63.5 mm, matte flame retardant
PWT 1025	0.10 mm x 19 mm x 25 m, outer diameter 69 mm, matte cold resistant
PWT 1030	0.10 mm x 19 mm x 30 m, outer diameter 74 mm, matte cold resistant
Tensile Strength	14 N/cm
Elongation	150 percent
Peel Strength	1.6 N/cm
Adhesion	0.32 kg/25 mm
Dielectric Strength	40 KV/mm
Breakdown Voltage	5000 V
Automotive Build Thicknesses	95 micron 105 micron 115 micron
Automotive Temperature Rating	85 degrees C
Compliance	ROHS 2.0 Directive on the automotive build
Shelf Life	24 months from production date

PVC Flame Retardant Electrical Tape

PVC Flame Retardant Electrical Tape is a matte-surface flame-retardant film supplied at 0.13 mm and 0.15 mm in 17 mm 18 mm and 23 mm widths. It is difficult to ignite and self-extinguishing, and is used for cable joint insulation up to 80 degrees C and 600 V. A separate new-energy vehicle build RENDER 1035 is offered at 0.10 mm with an 85 degrees C rating and ROHS compliance.

Parameter	Value
PFRET 1315	0.13 mm x 17 mm x 15 m, outer diameter 68 mm
PFRET 7200	0.15 mm x 18 mm x 12 m, outer diameter 70 mm
PFRET 7223	0.15 mm x 23 mm x 12 m, outer diameter 70 mm
RENDER 1035	0.10 mm x 19 mm x 35 m, outer diameter 80 mm
Tensile Strength	20 N/cm at 0.13 mm and 22 N/cm at 0.15 mm
Elongation	170 percent at 0.13 mm and 180 percent at 0.15 mm
Peel Strength	1.8 N/cm
Adhesion	0.38 kg/25 mm at 0.13 mm and 0.40 kg/25 mm at 0.15 mm
Dielectric Strength	at least 40 KV/mm
Breakdown Voltage	at least 5000 V
Use Rating	80 degrees C or below and 600 V or below
Compliance	ROHS 2002/95/EC six-item standard on the new energy build
Shelf Life	24 months from production date

PVC Cold-Resistant Electrical Tape

PVC Cold-Resistant Electrical Tape is built for low-temperature work, supplied as a matte-surface build at 0.15 mm and a super bright build at 0.15 mm and 0.165 mm. The super bright CREP SB1915 and SB1920 models are rated to minus 26 degrees C and the range covers wire and cable joint insulation below 600 V.

Parameter	Value
CREP 004	0.15 mm x 17 mm x 15 Y, outer diameter 68.5 mm
CREP 005/7017	0.15 mm x 17 mm x 11 m, outer diameter 70 mm
CREP 007	0.15 mm x 17 mm x 20 Y, outer diameter 75 mm
CREP 008	0.15 mm x 18 mm x 20 m, outer diameter 76 mm
CREP 6823	0.15 mm x 23 mm x 11 m, outer diameter 68 mm
CREP 7023	0.15 mm x 23 mm x 11 m, outer diameter 70 mm
CREP 7623	0.15 mm x 23 mm x 16.5 m, outer diameter 76 mm
CREP SB 013	0.15 mm x 18 mm x 15 Y, outer diameter 69 mm
CREP SB 015	0.15 mm x 18 mm x 20 m, outer diameter 76 mm
CREP SB1915	0.165 mm x 19 mm x 15 Y, outer diameter 69 mm, minus 26 degrees C
CREP SB1920	0.165 mm x 19 mm x 20 Y, outer diameter 76 mm, minus 26 degrees C
Tensile Strength	22 N/cm at 0.15 mm
Elongation	180 percent
Peel Strength	1.8 N/cm
Adhesion	0.4 kg/25 mm
Dielectric Strength	at least 40 KV/mm
Breakdown Voltage	at least 5000 V
Temperature Range	minus 26 degrees C to 80 degrees C on the super bright build

Shelf Life	24 months from production date
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Published values are general averages for reference. Actual product data should be based on the results of actual testing within the applicable scope.