
OANZ2.E17385 Insulating Tape - Component

Insulating Tape - Component

3M COMPANY

E17385

ELECTRICAL PRODUCTS DIV
3M AUSTIN CENTER
6801 RIVER PLACE BLVD
AUSTIN, TX 78726 USA

Aluminum foil pressure sensitive tapes, Cat. Nos. 1109, 1120, backing with conductive or nonconductive adhesive+.

Copper foil pressure sensitive tapes, Cat. Nos. 1125, 1126, backing with conductive or nonconductive adhesive+.

Flame retardant polyester film/epoxy resin composite insulating tape, Cat. No. 1(a), for use at temperatures not exceeding 130 C*.

Flame retardant polyester nonwoven/epoxy resin composite insulating tape, Cat. No. 10, for use at temperatures not exceeding 150 C*(a).

Flame retardant polyester film/epoxy resin composite insulating tape, Cat. No. Super 10(a), for use at temperatures not exceeding 155 C.

Flame retardant polyester nonwoven/epoxy resin composite insulating tape, Cat. No. 20+(a), for use at temperatures not exceeding 150 C*.

Flame retardant polyester film/epoxy resin composite insulating tape, Cat. No. Super 20(a), for use at temperatures not exceeding 155 C.

Polyester film/nonwoven composite insulating tape, Cat. Nos. MR94, MR94B(c), for use at temperatures not exceeding 130 C.

Polyester film/nonwoven composite insulating tape, Cat. No.44(a), 44-A(a), 44D-A(a), 44D(a), 44-18, Mil(a), 44-T(a), 44T-A(a), for use at temperatures not exceeding 130 C.

Polyester film/mat composite insulating tape, Cat. No. 55, for use at temperatures not exceeding 130 C.

Polyester film insulating tapes, Cat. Nos. 5, 54(a), 56(a), 75, 1318Y-1(a), 1381W-1(a), 1318B-1(a) , 1318Y-2(a), 1381W-2(a), 1318B-2(a) , 1318 clear (#)(a), 1318, MW (#)(a) for use at temperatures not exceeding 130 C.

Polyester film insulating tape, Cat. No. 1169, for use at temperatures not exceeding 130 C.

Polyester film insulating tape, Cat. Nos. 57(a), 58(a), 1291, for use at temperatures not exceeding 130 C.

Polyester film insulating tape, Cat. No. 74(a) for use at temperatures not exceeding 130 C.

Flame retardant polyester film insulating tape, Cat. Nos. 1298(b), 1298CR, 1350-1(b), 1350Y-1(b), 1350W-1(b), 1350B-1(b), 1350F-1(b), 1350FY-1(b), 1350FW-1(b), 1350FB-1(b), 1351Y-1(b), 1351W-1(b), 1351B-1(b), 1350F-2(b1), 1350FY-2(b1), 1350FW-2(b1), 1350FB-2(b1), 1351Y-2(b1), 1351W-2(b1), 1351B-2(b1), 1350CR-1 and 1350CR-2 for use at temperatures not exceeding 130 C*.

Flame retardant polyester film insulating tape, Cat. Nos. 1351-1(a) and 1351-2(a), for use at temperatures not exceeding 130° C*.

Flame retardant multilayer polyethylene terephthalate film tape, Cat. Nos. 1350T-1(bb), 1350T-2(bb), 1350T-3(bb), for use as reinforced insulation at temperatures not exceeding 130 C.

Flame retardant multilayer polyethylene terephthalate film tape, Cat. Nos. 1351T-1(a) and 1351T-2(a), for use as reinforced insulation at temperatures not exceeding 130° C*.

Flame retardant polyimide film tape, Cat. Nos. 92, 1205.

Glass cloth insulating tape, Cat. No. 27(a), for use at temperatures not exceeding 150 C.

Glass cloth insulating tape, Cat. No. 79, for use at temperatures not exceeding 150 C.

Glass cloth insulating tape, Cat. No. 27U, for use at temperatures not exceeding 130 C.

Glass cloth insulating tape, Cat. No. 90, for use at temperatures not exceeding 155 C.

Flame retardant glass cloth insulating tape, Cat. No. 69(a), for use at temperatures not exceeding 200 C*.

Flame retardant acetate cloth tape, Cat. No. 1554(+).

Flame retardant acetate cloth tape, Cat. No. 1554K(+).

Cotton cloth insulating tape, Cat. No. 29, for use at temperatures not exceeding 105 C.

Glass filament reinforced polyester film insulating tape, Cat. No. 46, for use at temperatures not exceeding 130 C.

Glass filament reinforced polyester film insulating tape, Cat. No. 1339, for use at temperatures not exceeding 130 C.

Polyester filament reinforced polyester film insulating tape, Cat. No. 1312(a), for use at temperatures not exceeding 130 C.

Flame retardant polyvinyl chloride film insulating tape, Cat. No. 66R, for use at temperatures not exceeding 105 C*.

Flame retardant polyvinyl chloride film nonadhesive insulating tape, Cat. No. 2585, for use at temperatures not exceeding 105 C*.

Ethylene propylene rubber non-adhesive insulating tape, Cat. No. 130C, for use at temperatures not exceeding 105 C.

Flame retardant polytetrafluoroethylene (PTFE) film tape, Cat. Nos. 60, 61*.

Flame retardant polytetrafluoroethylene (PTFE) film tape, Cat. Nos. 62, 63*.

Flame retardant aluminum foil tape, Cat. Nos. 49, 1267*.

Flame retardant aluminum foil tape, Cat. Nos. 1170*, 1171*.

Flame retardant copper foil tape, Cat. Nos. 1181, 1182*, 1184*.

Flame retardant copper foil tape, Cat. Nos. 1194, 1245*.

Flame retardant tin-alloy copper foil tape, Cat. No. 1183*.

Flame retardant tin-alloy copper foil tape, Cat. No. 1345*.

Flame retardant glass cloth film tapes, Cat. Nos. 69M*, 79-FR(+).

Cotton cloth tape, Cat. No. 65, rated 105 C, minimum thickness 9.2 mils.

Glass cloth tapes, Cat. No. 89, rated 130 C, minimum thickness 6.5 mils; Cat. No. 68, rated 180 C, minimum thickness 6.5 mils; Cat. No. 84, rated 155 C, minimum thickness 6.5 mils.

Polyester film glass filament tape rated 130 C, Cat. Nos. 1136, 53 minimum thickness 2.4 mils; Cat. Nos. 59, 51 minimum thickness 3.5 mils; Cat. No. 67 minimum thickness 5 mils; Cat. No. 1137 minimum thickness 5.5 mils; Cat. Nos. 1418, 19 minimum thickness 2.5 mils.

Polyimide film tape, Cat. No. 1206, rated 155 C, minimum thickness 2.2 mils.

Polyimide film tape rated 180 C, Cat. No. 1093@ minimum thickness 2.5 mils; Cat. No. 73@ minimum thickness 3.5 mils.

Polyester knit tape, Cat. No. 1078, rated 130 C, minimum thickness 11 mils.

Woven polyester cloth tape, Cat. No. 76, rated 130 C, minimum thickness 8 mils.

Woven polyester cloth tape, Cat. Nos. 1177, rated 130 C minimum thickness 7.5 mils.

Glass reinforced polyester film tapes, Cat. Nos. 1139, 1159 for use at temperatures not to exceed 155 C; 1146 for use at temperatures not to exceed 130 C.

PET insulating tape, Cat. No. 1186, rated 130C.

@ Complies with weather resistance and exposure to cold requirements when so marked.

*Complies with flame retardant requirements when so marked.

#Complies with cold and weather resistant requirements when so marked.

+Tested for flame retardant properties only.

(a)-Comparative Tracking Index (CTI)% performance level indicates material Group I, PLC=0, CTI equal to or greater than 600V.

(b)-Comparative Tracking Index (CTI)% performance level indicates material Group II, PLC=1, CTI equal to or greater than 400 but less than 600V also applies to Cat. Nos. 1350F-1 and 1350-1. (yellow color only.)

(b1)-Comparative Tracking Index (CTI)% performance level indicates material group IIIa, PLC=3, CTI equal to or greater than 175 but less than 400V. Also applies to Cat. Nos. 1350F-1, 1350F-2, 1350-1, 1350-2 in all colors (expectation: see item (b) referring to 1350-1 in yellow color.

(bb)-Comparative Tracing Index (CTI)% performance level indicates material Group II, PLC=1, CTI equal to or greater than 400 but less than 600V.

(c)-Comparative Tracking Index (CTI)% performance level indicates material Group IIIa, PLC=2 or 3, CTI equal to or greater than 175 but less than 400V.

%The CTI test was conducted per IEC 112 and the assigned level is based on the testing of both film and adhesive sides.

Marking: Company name, trademarks  or  and number designation printed on carton, plastic bag containing the roll and/or core.

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OANZ2.GuideInfo Insulating Tape - Component

[Insulating Devices and Materials - Component] Insulating Tape - Component

Guide Information

The materials covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

USE

This category covers insulating tape having variations in constructional features, such as tape without adhesive, tape having properties for use in special applications, and tape suitable for use on any insulated conductors at temperatures greater than 80°C. Tape for general use as electrical insulation at a maximum temperature of 80°C is covered under Insulating Tape (OANZ).

PRODUCT MARKINGS

Tape so designated, and marked, meets the following special requirements:

Flame Retardant — Indicates that insulating tape complies with the requirements for flame retardancy.

Cold Resistant — Indicates that insulating tape may be used to insulate splices while subjected to temperature down to -10°C.

Weather Resistant — Indicates that insulating tape is suitable for exposed outdoor use.

CONDITIONS OF ACCEPTABILITY

Unless specified otherwise in the individual Recognitions, consideration is to be given to the following Conditions of Acceptability when these components are employed in the end-use equipment:

1. Published temperature limits
2. Published Comparative Tracking Index

Additional Conditions of Acceptability may be specified in the individual Recognitions.

REQUIREMENTS

The basic standard used to investigate products in this category is UL 510, "Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape."

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