

Indian Standard
ELECTRICAL INSULATING MATERIALS —
THERMAL ENDURANCE PROPERTIES
PART 2 DETERMINATION OF THERMAL ENDURANCE PROPERTIES OF
ELECTRICAL INSULATING MATERIALS — CHOICE OF TEST CRITERIA
(First Revision)

International Standard	Corresponding Indian Standard	Degree of Equivalence
IEC 60172 : 1987 Test procedure for the determination of the temperature index of enamelled winding wires	IS 5825 : 1993 Test procedure for the determination of the temperature index of enamelled winding wires (first revision)	Identical
IEC 60216-3 : 2006 Electrical insulating materials — Thermal endurance properties — Part 3: Instructions for calculating thermal endurance characteristics	IS 8504 (Part 4) : 2012 Electrical insulating materials — Thermal endurance properties: Part 4 Instructions for calculating the thermal endurance characteristics (first revision)	do
IEC 60216-5 : 2008 Electrical insulating materials — Thermal endurance properties — Part 5: Determination of relative thermal endurance index (RTE) of an insulating material	IS 8504 (Part 6) : 2012 Electrical insulating materials — Thermal endurance properties: Part 6 Determination of relative thermal endurance index (RTE) of an insulating material	do
IEC 60216-6 : 2006 Electrical insulating materials — Thermal endurance properties — Part 6: Determination of thermal endurance indices (TI and RTE) of an insulating material using the fixed time frame method	IS 8504 (Part 7) : 2012 Electrical insulating materials — Thermal endurance properties: Part 7 Determination of thermal endurance indices (TI and RTE) of an insulating material using the fixed time frame method	do

IS 8504 (Part 2) : 2013**IEC 60216-2 : 2005**

International Standard	Corresponding Indian Standard	Degree of Equivalence
IEC 60317 (All parts) Specifications for particular types of winding wires	IS 13730 (All parts) Specifications for particular types of winding wires	Technically Equivalent
IEC 60370 Test procedure for thermal endurance of insulating varnishes — Electric strength method	IS 11256 (Part 1): 1985 Method of test for determination of thermal endurance of insulating varnishes: Part 1 Electric strength method	do
IEC 60371 (All parts) Specification for insulating materials based on mica	IS 9299 (All parts) Insulating materials based on built-up mica or treated mica paper	do
IEC 60394 (All parts) Varnished fabrics for electrical purposes	IS 11293 (All parts) Guidelines for the design of grout curtains	do
IEC 60454 (All parts) Specifications for pressure-sensitive adhesive tapes for electrical purposes	IS 7809 (All parts) Pressure sensitive adhesive tapes for electrical purposes	do
IEC 60455 (All parts) Resin based reactive compounds used for electrical insulation	IS 13465 (All parts) Resin based reactive compounds used for electrical insulation	do
IEC 60464 (All parts) Varnishes used for electrical insulation	IS 10026 (All parts) Insulating varnishes containing solvents	do
IEC 60554 (All parts) Specification for cellulosic papers for electrical purposes	IS 9335 (All parts) Cellulosic papers for electric purposes	do
IEC 60626 (All parts) Combined flexible materials for electrical insulation	IS 12747 (All parts) Combined flexible materials for electrical insulation	do
IEC 60674 (All parts) Specification for plastic films for electrical purposes	IS 11298 (All parts) Plastic films for electrical purposes	do
IEC 60684 (All parts) Flexible insulating sleeving	IS 11654 (All parts) Flexible insulating sleeving	do
ISO 179-1 Plastic — Determination of Charpy impact properties — Non-instrumented impact test	IS 13360 (Part 5/Sec 5) : 1996 Plastics — Methods of testing: Part5 Mechanical properties, Section 5 Determination of Charpy impact strength	do
ISO 527-2 Plastic — Determination of tensile properties — Test conditions for moulding and extrusion plastics	IS 13360 (Part 5/Sec 2) : 1996 Plastics — Methods of testing: Part5 Mechanical properties, Section 2 Determination of tensile properties — Test conditions for moulding and extrusion plastics	do

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard	Title
IEC 60243-1	Electrical strength of insulating materials — Test methods — Part 1: Tests at power frequencies
IEC 60450	Measurement of the average viscometric degree of polymerization of new and aged cellulosic electrically insulating materials
IEC 60641 (All parts)	Specification for pressboard and presspaper for electrical purposes

International Standard	Title
IEC 60667 (All parts)	Specification for vulcanized fibre for electrical purposes
IEC 60763 (All parts)	Specification of laminated pressboard
IEC 60819 (All parts)	Non-cellulosic papers for electrical purposes
IEC 60893 (All parts)	Insulating materials — Industrial rigid laminated sheets based on thermosetting resins for electrical purposes
IEC 61033 : 1991	Test methods for the determination of bond strength of impregnating agents to an enamelled wire substrate
ISO 37	Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties
ISO 178	Plastic — Determination of flexural properties
ISO 527-3	Plastic — Determination of tensile properties — Test conditions for films and sheets
ISO 1520	Paints and varnishes — Cupping test
ISO 1924 (All parts)	Paper and board — Determination of tensile properties
ISO 2759	Board — Determination of bursting strength
ISO 8256	Plastic — Determination of tensile-impact strength