

ELTEK International Laboratories

Accreditation Scope by Certification Test Order

Organization	Title	Number #	Test Names (s)
NEMA MW 1000	Magnet Wire		
NEMA RE-2 Section 4.11	Refrigerant Resistance/Extractable		
ASTM D149	Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulation Materials at Commercial Power Frequencies		
ASTM D256	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics		
ASTM D257	Standard Test Methods for DC Resistance or Conductance of Insulating Materials		
ASTM D495	Standard Test Method for High-Voltage, Low-Current, Dry Arc Resistance of Solid Electrical Insulation		
ASTM D638	Standard Test Method for Tensile Properties of Plastics		
ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials		
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting		
ASTM D1676	Standard Test Methods for Film-Insulated Magnet Wire		
ASTM D1822	Standard Test Method for Tensile-Impact Energy to Break Plastics and Electrical Insulating Materials		
ASTM D1932	Standard Test Method for Thermal Endurance of Flexible Electrical Insulating Varnishes		
ASTM D2132	Standard Test Method for Dust-and-Fog Tracking and Erosion Resistance of Electrical Insulating Materials		
ASTM D2303	Standard Test Methods for Liquid-Contaminant, Inclined-Plane Tracking and Erosion of Insulating Materials		
ASTM D2307	Standard Test Method for Thermal Endurance of Film-Insulated Round Magnet Wire		
ASTM D2519	Standard Test Method for Bond Strength of Electrical Insulating Varnishes by the Helical Coil Test		
ASTM D3145	Standard Test Method for Thermal Endurance of Electrical Insulating Varnishes by the Helical Coil Method		
ASTM D3251	Standard Test for Thermal Endurance Characteristics of Electrical Insulating Varnishes Applied Over Film-Insulated Magnet Wire		
ASTM D3455	Standard Test Methods for Compatibility of Construction Material with Electrical Insulating Oil of Petroleum Origin		
ASTM D3638	Standard Test Method for Comparative Tracking Index of Electrical Insulating Materials		

ASTM D3874	Standard Test Method for Ignition of Materials by Hot Wire Sources		
ASTM D5642	Standard Test Method for Sealed Tube Chemical Compatibility Test		
UL 94	Tests for Flammability of Plastic Materials for Parts in Device and Appliances	Sections 7, 8, 9, 11	Thin Material Vertical Burning: VTM-0, VTM-1, VTM-2; Horizontal Burning (HB); 50W (20 MM); Vertical Burning V-o, V-1, V-2; 500W (125MM); Vertical Burning: 5VA or 5VB
UL 746-A	Polymeric Materials – Short Term Property Evaluations	Sections 9, 11, 12, 13, 15, 20, 21, 22, 23.3, 25, 31, 33, 34	Tensile Properties of Thin Polymeric Sheeting; Izod Impact; Tensile Impact; Dielectric Breakdown Voltage and Strength; D-C Resistance or Conductance of Insulating Materials; High-Voltage, Low Current, Dry ARC Resistance Performance Level Categories of Solid Electrical Insulation; Comparative Tracking Index and Comparative Tracking Performance Level Categories of Electrical Insulation Materials; CTI IEC Method (IEC 60112); Liquid Contaminant, Inclined-Plane Tracking and Erosion of Insulating Materials; Hot Wire Ignition – Performance Level Categories; High-Voltage ARC Resistance to Ignition Performance Level Categories; Glow-Wire Ignitability Test; Tensile Properties of Thermoplastic Polymeric Materials
UL 746-B	Polymeric Materials – Long term Property Evaluations	Sections 6-17, 19, 20, and 20A	Determination of the Relative Thermal Indices of Polymeric Materials
UL 1446	Systems of Insulating Materials – General	9, 10, 11; 12, 13, 14	Varnish – Twisted Pair Thermal Aging, Varnish – Helical Coil Thermal Aging, Insulation System – Full Thermal Aging, Insulation System – One Temperature Thermal Aging, Insulation System – Two Temperature Thermal Aging, Sealed Tube Testing, Magnet Wire Coatings/Magnet Wires – One Temperature Thermal Aging, Magnet Wire Coatings/Magnet Wires – Heat Shock, Magnet Wire Coatings/Magnet Wires – Dielectric Strength Test

UL 1441	Coated electrical sleeving	Sections 5.6 and 5.7	Horizontal-specimen flame, Vertical-wire flame
UL 984	Compatibility	41 (except 41.16)	Hermetic Refrigerant Motor-Compressors
UL 2353	Single – Multi-Layer Insulated Winding 1 Wire	4, 5, 6, 8, 9, 10, 11, 12	Flexibility and Adherence Test, Retention of Electric Strength After Bending Test, Heat Shock Test, Conductor Dimensions, Number of Layers, Thickness of Insulation, Electric Strength Test – Twisted Sample
UL 2157/CSA-22.2	Long Term Exposure	Sections 32.2.1 through 32.2.7	Electric Clothes Washing Machines and Extractors
IEC 60167	Methods of test for the determination of the insulation resistance of solid insulating materials		
IEC 60243	Electrical strength of Insulating materials – Test Methods		
IEC 60587	Electrical insulating materials used under severe ambient conditions – Test methods for evaluating resistance to tracking and erosion		
IEC 60695-2-10	Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure		
IEC 60695-2-11	Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products		
IEC 60695-2-12	Glowing/hot-wire based test methods – Glow-wire flammability test method for materials		
IEC 60695-2-13	Glowing/hot-wire based test methods – Glow-wire ignitability test method for materials		
IEC 60112	Method for the determination of the proof and the comparative tracking indices of solid insulating materials		
IEC 61857-1	Electrical insulation systems – Procedures for thermal evaluation		
IEC 61857-21	Specific requirements for general-purpose models – Wire-wound applications		
IEC 61857-22	Specific requirements for encapsulated-coil model – Wire-wound electrical insulation system		
IEC 61858	Electrical insulation systems – Thermal evaluation of modifications to an established wire-wound and form wound EIS		
ISO 178	Plastics – Determination of flexural properties		
ISO 180	Plastics – Determination of izod impact strength		
ISO 527-2	Plastics – Determination of tensile properties		
ISO 8256	Plastics – Determination of tensile-impact strength		
IEEE 117	Test Procedure for Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery		
IEEE 259	Standard Test Procedure for Evaluation of 1 Systems of Insulation Dry – Type Specialty and General-Purpose Transformers	4.1; 4.2; 4.3; 4.4; 4.5; 4.6	Initial Screening Tests, Temperature Aging, Mechanical Stress, Thermal Shock, Moisture Exposure, Dielectric Proof Test

IEEE 1776 (merger of IEEE 275 with IEEE 429)	Recommended Practice for Thermal Evaluation of Unsealed or Sealed insulation Systems for AC Electric Machinery Employing Form – Wound Pre-Insulated Stator Coils for Machines Rated 15,000 V and Below	5.2; 5.3; 5.4; 5.5; 5.7	Temperature Exposure, Mechanical Stress Exposure, Moisture Exposure by Humidification, Failure Criteria
IEEE C57.12.56	Test Procedure for Thermal Evaluation of Insulation Systems for Ventilated Dry-Type Power and Distribution Transformers		
IEEE C57.12.60	Guide for Test Procedures for Thermal Evaluation of Insulation Systems for Dry-Type Power and Distribution Transformers, Including Open-Wound, Solid-Cast and Resin-Encapsulated Transformers	4.2; 4.3; 4.4; 4.5; 4.6; 4.7; 4.8	Test Models, Screening, Test Cycles, Temperature Aging, Cold Shock, Humidity Conditioning, Dielectric Test

248 Hughes Lane, Saint Charles, MO 63301-3260 USA

Phone: 636-949-5835 Fax: 636-723-5835

www.ELTEKLabs.com