

THERMAL CLASS	INSULATION TYPE	YIDA PRODUCT CODE	DIAMETER RANGE (mm)	DIAMETER RANGE (AWG)	IEC STANDARD (60317)	GB / T (6109)	NEMA STANDARD
130°C	Polyester 130	QZ (PEW)	0.06 - 1.6	#14 - #42	60317 - 34	6109.7	NONE
	Polyurethane 130	QA (UEW)	0.035 - 1.6	#14 - #47	60317 - 19	6109.4	MW75-C
155°C	Polyester 155	QZ (PEW)	0.06 - 3.0	#9 - #42	60317 - 3	6109.2	MW5-C
	Polyurethane 155	QA (UEW)	0.035 - 1.6	#14 - #47	60317 - 20	6109.10	MW79-C
	Polyurethane Nylon 155	Q(A/X) (UEWN)	0.035 - 1.6	#14 - #47	60317 - 21	6109.11	MW80-C
180°C	Polyurethane 180	QA (UEW)	0.035 - 1.6	#14 - #47	60317 - 51	6109.23	MW82-C
	Polyester-imide 180	QZY (EIW)	0.06 - 3.0	#9 - #42	60317 - 8	6109.5	MW30-C
200°C	Polyester-imide Polyamideimide	Q(ZY/XY) (EI-AIW)	0.06 - 3.0	#9 - #42	60317 - 13	6109.2	MW35-C
220°C	Polyester-imide Polyamideimide	Q(ZY/XY) (EI-AIW)	0.06 - 3.0	#9 - #42	NONE	NONE	MW37-C

THERMAL CLASS	INSULATION CHARACTERISTICS	GENERAL APPLICATIONS
130°C	The 130°C temperature rating offers dependable Class B polyester insulation, ideal for general-purpose applications that require consistent performance and moderate thermal resistance	General Class B industrial motors, magnetic core transformers, electrical appliances, and instruments
	Class 130°C solderable polyurethane, uniquely formulated for easy coloring with features such as unmatched solderability and low dielectric loss, ensuring energy-efficient operations	Automotive coils as relays and ignition coils, transformers and solenoids
155°C	155°C rated Class F polyester insulation material extends the possibilities with heightened thermal stability, perfectly suited for more demanding environments	Household appliances, Class F industrial motors, and instruments
	Solderable polyurethane for coils requiring Class F service. Excellent solderability at 370°C and elevated thermal values. low dielectric loss at high frequencies	Transformers, relays, solenoid valves, precision instruments, meters, small and micro-motors
	In addition to the properties provided by the regular single film insulation, polyurethane with polyamide (nylon) overcoat for applications requiring high thermal properties and chemical resistance.	Relays, ignition coils, solenoids, small transformers
180°C	180°C rated Class H polyurethane offers excellent solderable performance, high thermal shock and cut-through temperature, and low medium loss at high frequency operation environment	New energy electronic components, automotive straight rod motors, high-temperature small and micro-motors
	Film insulation composed of polyesterimide resins designed with very high thermal properties, high softening breakdown temperature, and excellent chemical resistance	Motors, small motors, dry-type transformers
200°C	A dual film insulation of polyesterimide with polyamideimide (A/I) overcoat for superior windability, heat shock resistance, and solvent resistance	General purpose motors, fractional and integral motors (hermetic and open), dry type transformers
220°C	Film composed of aromatic polyimide resin that features high cut through, exceptional chemical resistance, minimal outgassing and capable of continuous operation at 220°C in extremely harsh environments	Extreme loads and dry-type transformers that require high heat resistance, as well as explosion-proof motors, power tool motors