PPE

FIOS ESMALTADOS

INVEMID 200 - MW 35C, MW 36C, MW 73C

PRODUCT CONSTRUCTION

Copper

Modified Polyamide Imide

Modified polyesterimide
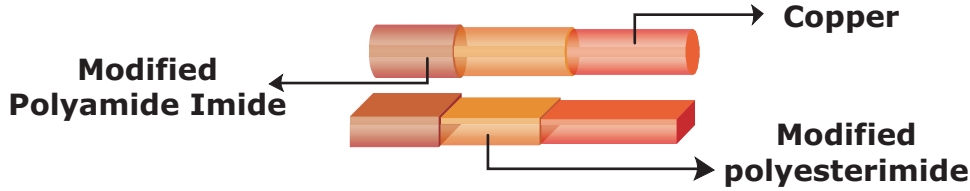
GENERAL INFORMATION

MAIN USES

- Alternators, ignition coils
- Electric toolst
- Motors for home appliances
- Motors for vehicle wind wipers
- Hermetic Motors
- Motors and high tension transformers
- Ballasts for fluorescent lamps

PROPERTIES

- Resistant to high temperatures
- Optimal mechanical resistance
- Resistant to cooling fluids and chlorinated oils

REFERENCES

Round	Square and Rectangular
MW-35C / 73C	MW-36C
IEC-60317-13	IEC-60317-29

AVAILABILITY

Round	Square and Rectangular
04 to 44 AWG	See Graph

TYPICAL PROPERTIES

(This data is typical of 18 AWG copper, heavy build insulation only. It is not intended to be creating specification limits)

THERMAL PROPERTIES

Thermal Endurance (20000hr)
Specification: 200°C
Typical Values: 211°C

Thermoplastic Flow
Specification: 300°C
Typical Values: 400°C

Heat Shock
Specification: 20% - 3xØ - ½ hr at 220°C - no cracks
Typical Values: No cracks

CHEMICAL PROPERTIES

Retained Dielectric after 72 hrs exposure to R-22
Specification: min 5700 V
Typical Values: 11500 V

R-22 Extractable
Specification: max 0.25%
Typical Values: 0.17%

Resistance to solvents
Specification: Xylene and 50/50
                    Xylene/Butyl Cellesolve
Typical Values: Pass

Transformer Oil resistance (IEC-60851-4)
Specification: Dielectric strenght after 1000 hr at 150°C
              Min Average - 5700 V
Typical Values: 12000

ELECTRICAL PROPERTIES

Dielectric Breakdown
Specification: min - 5700 V
Typical Values: 13000 V

Dielectric Strenght at 200°C
Specification: min - 4275 V
Typical Values: 9000 V

High Voltage Continuity
Specification: 5 faults/100 feet - 1500 V
Typical Values: 0 faults/100 feet - 2500 V

Pinhole (JIS 3003)
Specification: 2% salt water 1 minute at 12 V
Typical Values: 0 faults

MECHANICAL PROPERTIES

Mandrel flexibility after elongation
Specification: 20% - 3xØ no cracks
Typical Values: 20% - 2xØ no cracks

Unilateral Scrape (Avg. of 3 sides)
Specification: min - 1150 g
Typical Values: 1550 g

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