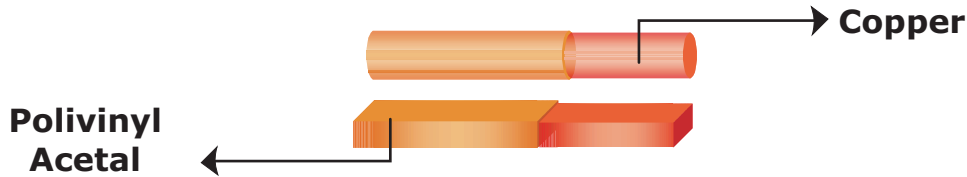




FIOS ESMALTADOS

INVEFORM 105 - MW 15C, MW 18C

PRODUCT CONSTRUCTION



GENERAL INFORMATION

MAIN USES

- Electric energy meters
- Motor generators and starting motors
- Motors for refrigerating sealed units - hermetics
- Dry and Oil - immersed transformers

REFERENCES

Round
MW-15C
IEC-60317-12

Square and Rectangular
MW-18C
IEC-60317-17
IEC-60317-18

PROPERTIES

- High mechanical and abrasion resistance
- Excellent coiling characteristics
- Resistant to cooling agents and mineral oils

AVAILABILITY

Round
04 to 24 AWG

Square and Rectangular
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 (20000hs)

Specification: 105°C
Typical Values: 122°C

Thermoplastic Flow

Specification: 180°C
Typical Values: 280°C

Heat Shock

Specification: 20% - 3xØ - ½ h at 155°C - no cracks
Typical Values: No cracks

ELECTRICAL PROPERTIES

Dielectric Breakdown

Specification: min - 5700 V
Typical Values: 11500 V

Dielectric Strength at 180°C

Specification: min - 4275 V
Typical Values: 8500 V

High Voltage Continuity

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

CHEMICAL PROPERTIES

Retained Dielectric after 72 hrs exposure to R-22

Specification: min - 5700 V
Typical Values: 10500 V

R-22 Extractable

Specification: max 0.25%
Typical Values: 0.17%

Transformers oil resistance

Specification: min - 5700 V
Typical Values: 8600 V

Solubility

Specification: Specimens immersed in xylene shall not soften sufficiently to expose the bare conductor

Typical Values: Pass

MECHANICAL PROPERTIES

Mandrel flexibility after elongation

Specification: 20% - 3xØ no cracks
Typical Values: 20% - 1xØ no cracks

Unilateral Scrape (Avg. of 3 sides)

Specification: min - 980 g
Typical Values: 1400 g