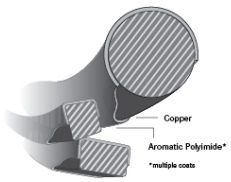

PYRE-ML

Rea Material Code: ML

Rea Insulation Code: 11

Insulation Material Description: Aromatic Polyimide

Thermal Class: 240

Shape: Round

Conductor: Copper

NEMA Specification: MW 16-C

IEC Specification: 60317-46

UL Number: E37683

MARKETS

Motors/Generators:
- General
- Comm & Ind
- Traction

Transformers:
- Specialty Transformers

TYPICAL APPLICATIONS

Dry-type transformers, traction motors, DC field coils, submersible pump motors very high temperature coils and relays, encapsulated coils, and hermetically sealed relays

FEATURES AND BENEFITS

- Extraordinary thermal and chemical stability
- Highest overload resistance, cut thru resistance and operating temperature classification of any Rea film insulation
- Exhibits high resistance to radiation
- Minimum outgassing makes ML ideal for use in hermetically sealed coils and relays
- Chemically compatible with the widest range of solvents, varnishes and encapsulating materials

AVAILABILITY

Single
11-23 AWG
Heavy
1-23 AWG

TYPICAL PROPERTIES

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

THERMAL

Thermal Endurance		
		>240°C
Thermoplastic Flow	**minimum**	**typical**
	450°C	500+°C
Heat Shock (20% 3X)		
		20% 3x @ 280°C
Stress Relief Temperature		
		200°C

MECHANICAL

Mandrel Flexibility	minimum	typical
After Elongation	20% 3x OK	30% 1x OK
After Snap	3x OK	1x OK
Unilateral Scrape	**minimum**	**typical**
Avg. of 3 sides	1150 gms	1500 gms

ELECTRICAL

Dielectric Breakdown	
@RT	12 kV
@ 220° C	7 kV
High Voltage Continuity	
NEMA @ 1500 V DC	5 faults/100 ft max
Typical @ 2000 DC	0-1 faults/100 ft

CHEMICAL

Resistance to Solvents	
After 24 hrs @ RT	Xylene 50/50 Cellosolve/Xylene Perchloroethylene 1% NaOH 28% Sulfuric Acid Freon TMS