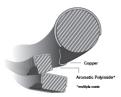


200°C







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 Temperatur	-e		

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