

Thermal Class: 240°C



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

General Information

References are provided for comparative purposes

Round

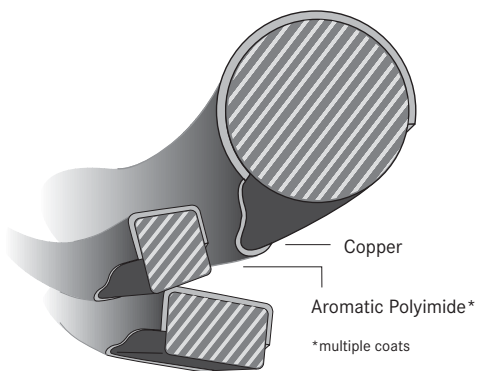
NEMA: MW 16-C
UL: File No. E37683

Square & Rect.

NEMA: MW 20-C
UL: File No. E37683

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



Availability

Round	single	heavy
copper	14-31 AWG	4-31 AWG
Square		heavy
copper		2-10 AWG
Rectangle		heavy
copper		
Min. Width		.162"
Max. Width		.575"
Min. Thickness		.061"
Max. Thickness		.288"

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		
20,000 hr life	>240°C	
Thermoplastic Flow	minimum	typical
	450°C	500+°C
Heat Shock (20% 3x)		
1/2 hr at 280°C minimum no cracks		
Stress Relief Temperature		
200°C		

Electrical

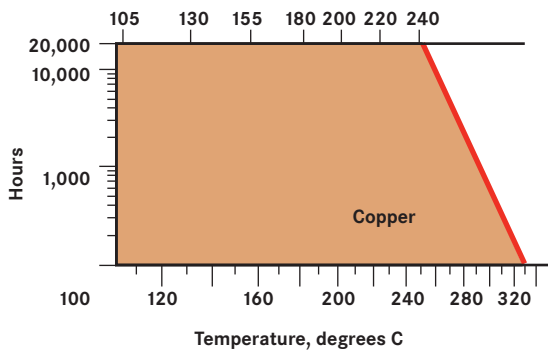
Dielectric Breakdown	
@ RT	12.0 kV
@ 220°C	7.0 kV
High Voltage Continuity	
NEMA @ 1500 V DC:	5 faults/100 feet max
typical @ 2000 V DC:	0-1 faults/100 feet

Chemical

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

Measured Thermal Endurance

18 AWG, Heavy Build Insulation



Mechanical

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