Therm-Aimid®

TAI

Thermal Class: 200°C

Features and Benefits

Tough abrasion-resistant surface which withstands winding operations

Excellent dielectric performance

Superior chemical and moisture resistance

Superior thermal overload protection, especially during locked-rotor conditions

(See chemical data)

Basecoat

High thermal endurance

High temperature dielectric

Resists thermoplastic flow

Excellent adhesion and flexibility

Topcoat

Heat shock resistant

Moisture resistant

Surface toughness

Chemical resistant

General Information

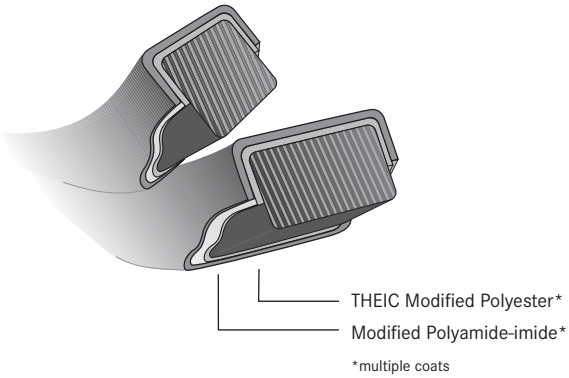
References are provided for comparative purposes

Square & Rectangular

NEMA: MW 36-C
UL: File No. E37683

Typical Applications:

Dry-type transformers, power generation, industrial motors, and hybrid electric motors



*multiple coats

Availability

Round	heavy
copper	1-13 AWG
Square	**heavy**
copper	1-14 AWG
Rectangle	**heavy**
copper	
Min. Width	.081"
Max. Width	.750"
Min. Thickness	.030"
Max. Thickness	.292"

Rea

Typical Properties

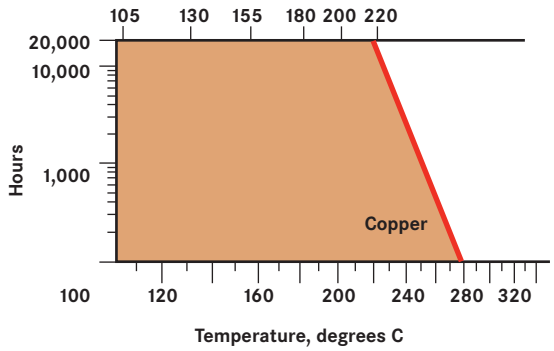
This data is typical of MW 35-C copper, heavy build insulation only. It is not intended to be used to create specification limits.

Thermal

Thermal Endurance		
20,000 hr life	>210°C	
Thermoplastic Flow	**minimum**	**typical**
	300°C	350°C
Heat Shock (15%)		
1/2 hr at 220°C minimum no cracks		

Measured Thermal Endurance

Expected Thermal Life (ASTM D 2307), 18 AWG, Heavy Build Insulation



Mechanical

Mandrel Flexibility	minimum	typical
After Elongation	30% OK	
Elongation	32%	40%

Electrical

Dialectric Breakdown (.114 x .229)	
Flat @ RT	5.0 kV
Edge @ RT	5.2 kV

Chemical

Retained Dialectric
After 72 hrs exposure to R-22 + 300°C conditioning:
3.5 kV
Resistance to Solvents Including
After 24 hrs @ RT: Pass,
Xylene 50/50 Cellosolve/Xylene Perchloroethylene 1% NaOH 28% Sulfuric Acid Gasohol

3600 East Pontiac Street · P. O. Box 6128, Fort Wayne, Indiana 46896-0128 · Toll Free: 800-Rea-Wire (732-9473) · Email: sales@reawire.com · www.reawire.com