



THERM-AIMID

Rea Material Code: **TAI**

Rea Insulation Code: **22**

Insulation Material
Description: **Theic
Modified Polyester
overcoated with
Polyamide-imide (AI)**

Thermal Class: **200**

Shape: **Shaped**

Conductor: **Copper**

NEMA Specification: **MW
36-C**

IEC Specification:
60317-29

UL Number: **E37683**

MARKETS

Motors/Generators:

**General
Comm & Ind
Generator
HVAC
Residential**

Automotive:

General

TYPICAL APPLICATIONS

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

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 condition

Basecoat

High thermal endurance High temperature dielectric Resists thermoplastic flow Excellent adhesion and flexibility

Topcoat

Heat shock resistant Moisture resistant Surface toughness Chemical resistant

AVAILABILITY

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		
		>210°C
Thermoplastic Flow	minimum	typical
	300°C	350°C
Heat Shock (20% 3X)		
		15% 220°C

MECHANICAL

Mandrel Flexibility	minimum	typical
After Elongation	30% OK	

ELECTRICAL

Dielectric Breakdown		
Flat @ Edge		5 kV
Edge @ RT		5.2 KV

CHEMICAL

Resistance to Solvents		
After 24 hrs @ RT	Xylene 50/50 Cellosolve/Xylene Perchloroethylene 1% NaOH 28% Sulfuric Acid Gasohol	
Retained Dielectric		
72 hrs Exposure + 300°C Conditioning		3.5 kV

Heavy	
1-14 AWG	
Rectangle Availability	
Min. Width	.081
Max. Width	.750
Min. Thickness	.030
Max. Thickness	.292