

Isomid

Wire insulations and coatings

Datasheet

Isomid is a Thermal Class 200, THEIC modified, polyesterimide wire enamel that meets the requirements of NEMA MW1000, MW30 or MW74 when applied as a basecoat, MW76 (when applied with a Nylon topcoat), and MW35 or MW73 (when applied with an Aminide topcoat). Topcoat applications serve the purpose of reducing coefficient of friction during winding/insertion.

These coating combinations can be applied as a basecoat when self-bonding magnet wire is required for a customer’s specific coil winding/forming operation.

Isomid is not directly solderable and must be removed prior to completing electrical component connections.

Electrical properties

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	NEMA MW1000	ASTM D1676	IEC 851	JIS C3003	MW 30/74-C (Heavy), 18 AWG	MW 76 C (Heavy), 18 AWG	MW 35/73-C (Heavy), 18 AWG
Dielectric strength @ 25°C	3.8.1.1	69-75	13-4.2,3,4	11.1	13.0 kV	11.7 kV	13.5 kV
Dissipation factor @ 170°C - 1kHz		107-114			0.06	0.08	0.05
Tangent delta (DIN)					190°C	55/ 186°C	192°C

Mechanical properties

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	NEMA MW1000	ASTM D1676	IEC 851	JIS C3003	MW 30/74-C (Heavy), 18 AWG	MW 76 C (Heavy), 18 AWG	MW 35/73-C (Heavy), 18 AWG
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Adherence and flexibility						
No snap	3.3.1.1	141-148	8.1	Pass	Pass	Pass
20% snap	3.3.1.1	141-148	8.5.1.1	Pass	Pass	Pass
Cut-through temperature	3.50.1.1	61-68		370°C	317°C	360°C

Disclaimer: Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice. This datasheet is only valid for Alleima materials.