

Tri-2-sod

Wire insulations and coatings

Datasheet

TRI-2-SOD is a magnet wire class H modified polyester resin insulation. It has excellent thermal endurance, solvent resistance and exhibits a low coefficient of friction to improve windability.

Typical applications are within appliance and tool motors, continuous operation coils, subfractional instrument and servo motors solenoids. speaker voice coils.

Electrical properties

Property	NEMA MW 1000	ASTM D1696	IEC 851	JIS C 3003	
Dielectric strength at 25°C (77°F)	3.8.1.1	69-75	13-4.2, 3, 4	11.1	14.0 kV
Dissipation factor at 220°C (428°F)		107-114			0.05

Mechanical properties

Property	NEMA MW-1000	ASTM D1696	IEC 851	JIS C 3003	
Adherence and flexibility					
no snap	3.3.1.1	141-148	8-5.1.1	8.1	Pass 1d
20% snap	3.3.1.1	141-148		9.1	Pass 1d
% elongation at break	3.4.1.1	122-129	6-3.0		38
Mandrel at break	3.4.1.1	122-129			Pass 1d
Cut through temperature	3.50.1.1	61-68			306°C (583°F)
Heat shock					
20% stretch - ½ h at 200°C (392°F)	3.5.1.1	156-162	9-3.1	14.1	Pass 3d

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.