

PAC-240A

Wire insulations and coatings

Datasheet

PAC-240A is a high-performance, modified Type 1, Class 240 polyimide wire enamel. Applied in the form of polyamic acid solution, it is converted with heat to a continuous film with excellent resistance to radiation, chemicals and cryogenic temperatures. PAC-240A meets the requirements of NEMA MW 16 and is listed with Underwriters Laboratories.

Electrical properties

Property	NEMA MW-1000	ASTM D1696	IEC 851	JIS 3003	
Dielectric strength at 25°C (77°F)	3.8.1.1	69-75	13-4.2, 3, 4	11.1	10.2 kV
Dissipation factor at 220°C (428°F) - 1 kHz		107-114			0.09

Mechanical properties

Property	NEMA MW-1000	ASTM D 1696	IEC 851	JIS C 3003	
Adhesion and flexibility	3.3.1.1	141-148	8-5.1.1	8.1	Pass 1d
no snap	3.3.1.1	141-148		9.1	Pass 1d
20% snap					
Cut-through temperature	3.50.1.1	61-68			>500°C (932°F)
Heat shock 20% stretch - ½ h at 260°C (500°F)	3.5.1.1	156-162	9-3.1	14.1	Pass 3d

Physical properties

Thermal endurance above 240°C (464°F)

Hours at temperature	20000	10000	5000	1000

Temperature °C (°F)	242 (468)	270 (518)	280 (536)	315 (599)
----------------------------	-----------	-----------	-----------	-----------

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.