

PAC-240

WIRE INSULATIONS AND COATINGS

DATENBLATT

PAC-240 is a film insulation made of polyimide resins. It is a Class 240°C (465°F) thermal rated insulation with exceptional resistance to chemical solvents and burnout. The outstanding thermoplastic flow of over 400°C (750°F) and its ability to withstand excessive overloads extends the use of magnet wire in extreme conditions. ML is unaffected by prolonged exposure to varnish solvents and its compatible with virtually all systems.

Applied in the form of a polyamic acid solution, it is converted with heat to a continuous film with excellent resistance to radiation, chemicals and cryogenic temperatures. PAC-240 meets the requirements of NEMA MW 16 and listed with Underwriters Laboratories

Typical applications are within fractional and integral horsepower motors, high temperature continuous duty coils and relays, hermetic and sealed units, heavy duty hand tool motors, encapsulated coils, speaker voice coils.

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 | 11.1 kV |
| Dissipation factor at 220°C (428°F) - 1 kHz | | 107-114 | | | 0.08 |

MECHANICAL PROPERTIES

| Property | NEMA MW-1000 | ASTM D 1696 | IEC 851 | JIS C 3003 | |
|------------------------------------|--------------|-------------|---------|------------|----------------|
| Adhesion and flexibility | | | | | |
| no snap | 3.3.1.1 | 141-148 | 8-5.1.1 | 8.1 | |
| 20% snap | 3.3.1.1 | 141-148 | | 9.1 | |
| 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 |
| Scrape resistance | 3.59.1.1 | 170-177 | 11-6.1 | 10.2 | 1275g |

PHYSICAL PROPERTIES

Thermal endurance above 240°C (464°F)

| | 20000 | 10000 | 5000 | 1000 |
|----------------------|-----------|-----------|-----------|-----------|
| Hours at temperature | | | | |
| Temperature °C (°F) | 242 (468) | 270 (518) | 280 (536) | 315 (599) |

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