



IPG® (Intertape®) 4118

IPG® (Intertape®) 4118 is a Kapton® polyimide film electrical adhesive tape. Kapton® polyimide backing and silicone adhesive offers outstanding thermal resistance and excellent electrical insulating properties. This tape is used where toughness, Puncture resistance, extreme resistance to heat, and flame retardance are required. MeasuRed (19) against maximum temperature criteria (VDE 03340, DIN 40633) this tape can withstand high temperatures for limited periods of time (250°C = 1.000 hours, 350°C = 10 hours). Flame retardant according to UL510.

Nominal Values

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| Backing | Kapton®, Polyimide Film |
| Backing Thickness | 0,025 mm |
| Adhesive Type | Silicone, thermosetting |
| Total Thickness | 0,069 mm |
| Insulation Class | H 180°C (DIN EN 60085, OANZ2 & OANZ8) |
| Color | Amber (00) |
| Adhesion to Steel | 6,80 N/25 mm |
| Tensile Strength | 130,00 N/25 mm |
| Elongation at Break | 60% |
| Dielectric Strength | 7000 V |
| Insulation Resistance (megaΩ) | 10 ⁶ Ω |
| Electrolytic Corrosion | A1,0 |
| Flammability | BU1 |
| UL-File # | E20780 |
| Length | 33 m, other lengths upon request |
| Width | 6 mm, 9 mm, 12 mm, 15 mm, 19 mm, 25 mm, 30 mm, 38 mm, 50 mm, other widths upon request |
| Storage Life | The material can be stored at room temperature for at least 12 months. |
| Effective | 04 December 2019 |

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Applications

- Core and inter-layer insulation in transformers
- protection of gold plated contacts on PC-boards during wave-soldering and where residue free removal of the tape is required
- Ground barrier and phase insulation in high performance coils
- Outer wrap on small bobbin wound coils
- Form wound coils for traction motors
- Final bandaging of coils
- Taping of coreless coils
- Contact protection against current carrying conductors

Storage Conditions

The Rolls should be stored in their packaging protected from light and at a temperature between 18°C to 24°C, with a relative humidity of 40% to 50%. When using an adhesive tape stored below 18°C, it is advisable to keep the tape at room temperature for 24 hours to preserve its characteristics.

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