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

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)	$10^6\Omega$
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

We provide the technical data of our products to the best of our knowledge, but without obligation. Due to the wide range of material and environmental influences, we recommend a suitability test on original products prior to use. Please also note the standard processing guidelines for adhesive tapes, which we will gladly send you upon request.

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Applications

- Core and inter-layer insulation in tranformers
- 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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