

6051 Polyimide Film

1. GENERAL INFORMATION

PI-film 6051 is a golden, semi-transparent isotropic film that withstands higher temperatures than PET films. This product shows outstanding electrical and chemical properties, as well as excellent temperature resistance (from -200°C to 260°C). It is also scratch and abrasion resistant. 6051 is designed for insulation of copper wires, copper bars or slots. It is UL94 V-0 recognized for its flame-retardant properties.

2. TECHNICAL VALUES

Nominal Thickness			[μm]	25	50	75	125
Area Weight	IEC 60626	[g/m ²]		35	71	104	177
Dielectric Strength	IEC 60626	[kV/mm]		≥210	≥200	≥200	≥200
Elongation at break (MD and TD)	IEC 60626	[%]		≥60	≥60	≥60	≥60
Tensile Strength (MD and TD)	IEC 60626	[MPa]		≥160	≥160	≥150	≥150
Thermal Shrinkage (MD and TD)	IEC 60626	[%]		≤1	≤1	≤1	≤1
Thermal Classification		[-]		UL 1446 V-0			

3. STORAGE AND AVAILABILITY

- Shelf life is 18 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- Standard width is 1000 mm
- Available from 10 mm width upwards

4. NOTES

All statements, technical information, and recommendations contained in this document are based on tests or experience that we believe are reliable. However, many factors beyond our control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes. Tolerances on thickness and area weight are +/- 15% if not stated differently.

All questions of warranty and liability relating to our products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

5. VERSIONING

Rev. 5 dated 16/07/2026