



Tianjin Tianyuan Electronic Material Co.,Ltd.

TRANSPARENT FILM POLYIMIDE FILM TECHNICAL STANDARDS

Colorless polyimide (PI) film has excellent temperature resistance, mechanical properties and excellent optical transmittance.

Application: Products can be used in microelectronics and optoelectronic industries such as flexible printed circuit boards, liquid crystal displays, solar panels, etc.

No.	Indicator Name		Unit	TY6052CPI performance index values			
1	Appearance		/	Yellow to colorless and transparent, smooth surface, no wrinkles, tears, particles, bubbles, pinholes, foreign impurities and other defects with neat edges without damage.			
2	Thickness and allowable deviation		um	12.5	20	25	50
				-1	-2	-2	-2
				2	2	2	2
3	Tensile strength	Vertical	MPa	≥80			≥80
		Horizontal	MPa	≥80			≥80
4	Elongation at break	Vertical	%	≥35			≥35
		Horizontal	%	≥35			≥35
5	Electrical strength	Average value	MV/m	≥150			≥150

		Individual values	MV/m	≥100	≥80
6	Surface resistivity		Ω	≥1.0×10 ¹⁰	
7	Volumetric resistivity		Ωm	≥1.0×10 ¹³	
8	Transmittance		%	≥85	≥80
9	Color b		/	≤2.0	≤3.5