



# Tianjin Tianyuan Electronic Material Co.,Ltd.

## BLACK MATTE POLYIMIDE FILM TECHNICAL STANDARDS

Black matte polyimide film is a black polyimide film (true color black) made by a special formula and process. It has good shading and matte brightness; At the same time, it has excellent high temperature resistance, radiation resistance, chemical stability, good mechanical properties and thermal conductivity.

Application: The product has excellent shading performance and is an ideal material for black high-temperature resistant adhesive tape, black high-temperature resistant label and black covering film.

No	Indicator Name		Unit	TY6052BW performance indicator values				
1	Appearance		/	Black, flat and smooth surface, no creases, tears, particles, bubbles, pinholes and foreign impurities and other defects edge neatly without breakage.				
2	Thickness and allowable deviation		um	12.5	15	18	20	25
				-1				
					±2	±2	±2	±2
3	Tensile strength	Vertical	MPa	≥120				
		Horizontal	MPa	≥100				
4	Elongation at break	Vertical	%	≥20				
		Horizontal	%	≥20				
5	Industrial frequency electrical strength	Average value	MV/m	≥60				
6	Surface resistivity		Ω	≥1.0×10 <sup>10</sup>				
7	Glossiness (60° angle)		GU	≤65				