## Polyimide Film 6052



Standard No.: Q/12Y 4213-2014

6052 polyimide film is made of compound resin of ODA and PMDA and casted, and then stretched by two directions. The product has excellent performance of mechanism and electric. In addition, the product also processes the excellent property dimensional stability, chemistry and radiation resistance as well as high and low temperature resistance. It can be used of at temperature from  $-240\,^{\circ}\text{C}$  to 260 °Cat long period.

## I. Technical Requirement:

NO	Index Desciption		Unit	Index Value (TY6052)				
1	Standard thicks		μm	12.5	25. 0	35. 0	40. 0	50.0
2	Allowable tolerance		μm	+2 -1	+2 -2	+2 -2	+2 -2	+2 -2
3	Density		kg/m3	1420±20				
4	Tensile	Longitudinal Transverse	Mpa	≥150 ≥150				≥165 ≥165
5	Elongation at break	Longitudinal Transverse	%	≥40	≥55	≥55		
6	Hot- shrinkage rate	150℃ 400℃	%	≤0.35				
7	Frequency electrical strength	Average value Individual value	MV/m	≥220 ≥150	≥23 ≥20		// //	≥220 ≥

8	Volume resistivity t 200℃	Ω.m	≥1. 0×10 <sup>10</sup>
9	Surface resistivity at 200℃	Ω	$\geq 1.0 \times 10^{14}$
10	Relative dielectric constant (48~62Hz)	_	$3.5\pm0.4$
11	Dielectric disspation factor	_	≤4. 0×10 <sup>-3</sup>
12	Long term heat resistivity temperature Index	$^{\circ}$	≥180

## ${\rm II.Application}$ :