



Jiangsu Province Yangzhong WenCheng Seal Factory

Inspection report

Name: PTFE Thin Film

experimental project	Index value	measured value	judgment
Exterior	White, no visible impurity	White	Qualified
Thickness	Standard thickness $\pm 10\%$	0.08	Qualified
	0.2		
Width	Standard width ± 5 mm	25	Qualified
	25		
Tensile StrengthMpa	≥ 36	36.9	Qualified
Elongation %	≥ 100	110	Qualified
Bulk density	2.10~2.30	2.25	Qualified
Remark			

PTFE Thin film technology parameters

Project	Unit	Oriented film	Semi-directed film	Non oriented film
Tensile Strength	MPa	≥ 30	≥ 20	≥ 10
Elongation	%	≥ 30	≥ 60	≥ 100
1MHz Dielectric loss tangent		2.5×10^{-4}	—	—
1MHzdielectric constant		average value 1.8-2.2	—	—
DC breakdown voltage strength (room temperature)	KV/M	average value 200 Lowest value 40	average value 60 Lowest value 6	