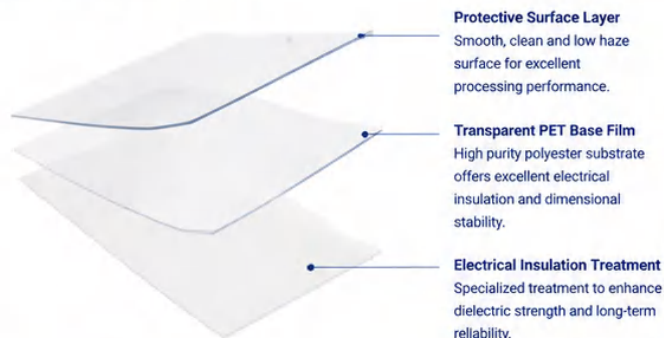




CLEAR HIGH TEMP PET ELECTRICAL ISOLATION FILM

ENGINEERING SPECIFICATION CHART

1. MATERIAL STRUCTURE



2. THICKNESS OPTIONS

Thickness (μm)	12	18	25	25	35	50	75	100	125	150	150	188	250	Custom
Tolerance (μm)	±1	±1	±1	±1	±2	±2	±2	±3	±3	±3	±3	±4	±4	±5

3. OPTICAL & ELECTRICAL PROPERTIES

Property	Test Method	Typical Value
Light Transmittance	ASTM D1003	≥ 90%
Haze	ASTM D1003	≤ 2.0%
Gloss (60°)	ASTM D2457	≥ 100 GU
Dielectric Strength	ASTM D149	≥ 120 kV/mm
Volume Resistivity	ASTM D257	≥ 1.0 × 10 ¹⁶ Ω·cm
Surface Resistivity	ASTM D257	≥ 1.0 × 10 ¹⁵ Ω/□
Dielectric Constant (1MHz)	ASTM D150	3.0 – 3.4
Dissipation Factor (1MHz)	ASTM D150	≤ 0.008

4. PHYSICAL PROPERTIES

Property	Test Method	Typical Value
Tensile Strength (MD)	ASTM D882	≥ 180 MPa
Tensile Strength (TD)	ASTM D882	≥ 180 MPa
Elongation at Break (MD)	ASTM D882	≥ 100%
Elongation at Break (TD)	ASTM D882	≥ 80%
Heat Shrinkage (150°C, 30min) MD	ASTM D1204	≤ 1.5%
Heat Shrinkage (150°C, 30min) TD	ASTM D1204	≤ 0.8%
Coefficient of Friction (PET side)	ASTM D1894	≤ 0.35
Density	ASTM D792	1.38 g/cm ³

5. ROLL SPECIFICATIONS



Roll Width (mm)
300 / 500 / 600 / 800 / 1000 / 1200 / 1250
Custom Width Available
Tolerance: ± 2 mm



Roll Length (m)
100 / 200 / 500 / 1000 / 2000
Custom Length Available
Tolerance: ± 0.5%

6. OPERATING TEMPERATURE



Continuous Use: -40°C ~ 150°C
Short-term Resistance: Up to 180°C

7. CHEMICAL RESISTANCE



Resistant to oils, solvents, acids, alkalis and most chemicals.
Not recommended for strong alkaline solution at high temperature.

9. AVAILABLE FORMS



Roll

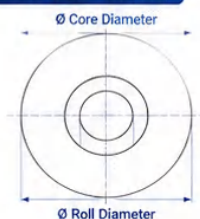


Sheet



Die Cut Parts

8. DIMENSIONAL DRAWING (mm)



10. TYPICAL APPLICATIONS



Transformers



Electric Motors



Lithium Battery Modules



EV Battery Packs



PCB / FPC Insulation



LED Lighting Systems



Precision Electronics