

Jiangyin Jiaou New Materials Co.,Ltd

TECHNICAL DATA SHEET

Product: PET Sheet

General Properties	Value	Test Method	Unit
Density	1.36	ISO 1183	g/cm ³
Water Absorption	0.25	ISO 62	%
Flammability	HB / HB	UL 94	/
Mechanical Properties			
Yield Stress	85	ASTM D638	MPa
Elongation @ Break	15	ASTM D638	%
Tensile Modulus of Elasticity	3000	ASTM D638	MPa
Notched Impact Strength (Charpy)	2	DIN EN ISO 179	kJ/m ²
Ball Indentation Hardness	170	DIN EN ISO 2039-1	MPa
Shore Hardness	84	DIN EN ISO 868	Scale D
Thermal Properties			
Melting Temperature	255	ISO 11357-3	°C
Thermal Conductivity	0.28	DIN 52612-1	W / (M*K)
Thermal Capacity	1.1	DIN 52612	kJ / (kg*K)
Coefficient of Linear Thermal Expansion	60	DIN 53752	10 ⁻⁶ K ⁻¹
Service Temperature, Long Term	-20 up to +115	Average	°C
Service Temperature, Short Term (Max.)	180	Average	°C
Heat Deflection Temperature	80	ASTM D648	°C
Electrical Properties			
Dielectric Constant	3.4	IEC 60250	/
Dielectric Dissipation Factor (50Hz)	0.001	IEC 60250	/
Volume Resistivity	10 ¹⁸	IEC 60093	Ω*cm
Surface Resistivity	10 ¹⁶	IEC 60093	Ω
Comparative Tracking Index	600	IEC 60112	
Dielectric Strength	20	ASTM D149	kV/mm