

Phenolic Paper Laminated Sheet (- IEC Standard)

Properties		Unit	Grade		
			PFCP201	PFCP202	PFCP203
Flexural strength perpendicular to laminations	≥	MPa	135	120	120
Insulation resistance after immersion in water (D-24/23)	≥	Ω	-	-	5×10 ⁷
Dielectric strength perpendicular to laminations (in 90±2 °C transformer oil, 1mm in thickness)	≥	MV/m	-	15.8(E-96/105)	12.1
Breakdown voltage parallel to laminations (in 90±2 °C transformer oil, ≥4mm in thickness)	≥	KV	-	60(E-96/105)	20
Permittivity (50Hz)	≤	—	-	5.5	-
Permittivity (1MHz)	≤	—	-	-	5.5
Dissipation factor (50Hz)	≤	—	-	0.05	-
Dissipation factor (1MHz)	≤	—	-	-	0.05
Density		g/cm ³	(1.30-1.40)	(1.30-1.40)	(1.30-1.40)
Water absorption (D-24/23, 1.6 mm in thickness)	≤	mg	480	204	182
Color		—	Natural	Natural	Natural
Reference standard		-	IEC893-1993		

Characteristics & Applications:

1. PFCP201: Mechanical applications, mechanical properties better than other PFCP types, poor electrical properties under normal humidity, also available in hot-punching versions
2. PFCP202: High voltage applications at power frequencies, high electric strength under oil, good electric strength in air under normal humidity
3. PFCP203: Mechanical and electrical applications, good electrical properties under normal humidity, also available in hot-punching versions