



BEIJING NEW FRIEND INSULATION MATERIAL CO., LTD.

北京新福润达绝缘材料有限责任公司

CERTIFICATE OF QUALITY

质量证明书

POLYESTER RESIN LAMINATE SHEET UPGM203 (GPO-3)

聚酯树脂层压板 UPGM203 (GPO-3)

Reference standard : IEC 60893-3-5 : 2009

Date: January 20, 2023

NO.	PROPERTIES	UNIT	METHODE	STANDARD VALUE	TESTING RESULT
1	Flexural strength perpendicular to laminations A: Under normal conditions E- 1/ 130: Under 130±5℃ 垂直层向弯曲强度	MPa	ISO 178	≥ 130 ≥ 65	222 172
2	Impact strength parallel to lamination 平行层向冲击强度	kJ/m ²	ISO 180	≥ 40	47
3	Dielectric strength perpendicular to laminations (in oil 90±2℃), 2.0mm in thickness 垂直层向电气强度 (90±2℃油中), 板厚 2mm	kV/mm	IEC 60243	≥ 10.5	12.5
4	Breakdown voltage parallel to laminations (in oil 90±2℃) 平行层向击穿电压 (90±2℃油中)	kV	IEC 60243	≥35	75
5	Water absorption , 3mm in thickness 吸水率, 板厚 3mm	mg	ISO 62	≤ 55	23
6	Insulation resistance Impregnated in water, D-24/23 浸水后绝缘电阻, D-24/23	Ω	IEC 60167	≥5.0×10 ⁸	6.5×10 ¹¹
7	Tracking index resistance 漏电起痕指数	V	IEC 60112	≥500	600
8	Glow wire test 灼热丝测试	℃	IEC 60695	960℃	960℃
9	Tracking and erosion resistance 耐电痕化及蚀损	class	IEC 60587	1B 2.5	pass1B 2.5
10	Flammability 燃烧性	Class	IEC 60695	FV0	FV0

NOTE : THE ABOVE VALUES ARE GIVEN AS REFERENCE ONLY TAKEN FROM AVERAGE TEST RESULTS , AND DO NOT REPRESENT A GUARANTEE ON THE ACTUAL PERFORMANCE OF THE MATERIAL.

CHECKED BY: DUXIANG

TECHNICAL MANAGER: CHENYUELI

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