

Technical Data Sheet UP GM 203 (Hm 2471)

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UP GM 203 acc. EN 60893 / Hm 2471 acc. DIN 7735 – glass-mat reinforced unsaturated polyester hard laminate ("hartmatte"), NEMA equivalent GPO-3

Typical Properties

- Glass-mat reinforced polyester hard laminate ("hartmatte")
- NEMA equivalent GPO-3
- High electrical insulation performance
- Good resistance to arc tracking and creepage (CTI 600)
- Thermoset laminate (dimensionally stable)
- Good machinability
- Self-extinguishing (UL 94 V-0)
- Colour white (natural)

Typical Industries

- Electrical engineering and switchgear construction (LV/MV)
- Power supply and transformer engineering
- Mechanical and plant engineering
- Jig, fixture and tool making
- Test and measurement technology
- General mechanical component manufacturing

	Test Method	Unit	Value
Mechanical Properties			
Compressive Strength 23°C	ISO 604	N/mm ²	200
Flexural Strength 23°C	ISO 178	N/mm ²	130
Modulus of Elasticity (Flexural)	ISO 178	N/mm ²	8000
Tensile Strength	ISO 527	N/mm ²	70
Shear Strength to Laminations	EN 60893	N/mm ²	20
Notched Impact Strength (10°C)	ISO 179	kJ/m ²	150
Electrical Properties			
Comparative Tracking Index CTI	IEC 112	–	600
Dielectric Constant	DIN 53483	–	4.5
Insulation Resistance after Water Immersion	IEC 167	Ω	5 · 10 ⁸
Electric Strength ⊥	IEC 243-1	kV / 3 mm	27
Electric Strength	IEC 243-1	kV / 25 mm	35
Thermal Properties			
Limiting Temperature	IEC 216	°C	130
General Properties			
Density	ISO 1183	g/cm ³	1.8

	Test Method	Unit	Value
Water Absorption	ISO 62	%	0.2
Flammability Rating	UL 94	–	V-0
Colour			white (natural)

UP GM 203 (Hm 2471) is a glass-mat reinforced hard laminate made of unsaturated polyester resin ("hartmatte") to DIN 7735 / EN 60893, NEMA equivalent GPO-3. The values stated are typical properties subject to normal manufacturing tolerances; they serve as an aid to material selection and do not constitute a legally binding guarantee of specific properties. Actual values may vary slightly depending on manufacturer and sheet thickness. UP GM 203 (Hm 2471) is not declared suitable for direct food contact.

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