

Technical Data Sheet UP GM 205 (HM 2472 R)

UP GM 205 (HM 2472 R)

UP GM 205 acc. to EN 60893 / HM 2472 R acc. to DIN 7735 – glass-mat reinforced polyester resin hard laminate

Typical Properties

- R grade of the UP GM 204 (HM 2472) hard-laminate grade
- Temperature limit 155 °C (same as HM 2472)
- Very good mechanical and electrical properties (manufacturer information)
- Flame-retardant (UL 94 V-0)
- Thermoset laminate (dimensionally stable)
- Colour white

Typical Industries

- Electrical engineering and switchgear construction
- Mechanical and plant engineering
- Jig, fixture and tool making
- Test and measurement engineering
- General mechanical component making

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	200
Tensile strength	DIN 53455	MPa	124
Compressive strength	DIN 53454	MPa	200
Notched impact strength (10 °C)	DIN 53453	kJ / m ²	150
Modulus of elasticity	DIN 53452	MPa	8000
Electrical Properties			
Electric strength ⊥ (3 mm)	DIN 53481	kV	27
Electric strength (25 mm)	DIN 53481	kV	35
Permittivity	DIN 53483		4.5
Comparative tracking index CTI	IEC 112		600
Thermal Properties			
Temperature limit	VDE 0304/2	°C	155
Thermal class	IEC 85		F
General Properties			
Density	DIN 53479	g / cm ³	~1.80
Water absorption (4 mm thickness)	DIN 53495	mg	60
Flammability	UL 94		V-0

	Test Method	Unit	Value
Colour			white

UP GM 205 (HM 2472 R) is the R grade of the glass-mat reinforced polyester resin hard laminate UP GM 204 (HM 2472) according to DIN 7735 / EN 60893, with the same temperature limit class of 155 °C. No separate, publicly available numerical data sheet is available for this grade; the values stated are therefore typical properties based on the UP GM 204 (HM 2472) grade and are subject to normal manufacturing tolerances. They serve as an aid to material selection and are not a legally binding warranty of specific properties. UP GM 205 (HM 2472 R) is not declared suitable for direct food contact.

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