

GLASS-EPOXY PREPREG

MTP305 V-202T-33%RW (2x2 Twill, 200 g/m², Width 1270 mm)

DESCRIPTION

This product is a **glass-epoxy prepreg** based on the **MTP305 epoxy resin** and the **V-202T-33%RW E-Glass fabric**, in **2x2 twill weave (200 g/m²)**, with an **aluminium-powder coating** on one side of the reinforcement. It is designed for structural and cosmetic applications requiring good drapability, reliable mechanical performance, and a high-quality surface finish.

APPLICATIONS

- Structural glass-epoxy laminates
- Marine components
- Sporting goods
- High-performance industrial parts
- Decorative composite panels
- General prepreg-based manufacturing

WORKING INSTRUCTIONS / CURING CONDITIONS

Recommended cure

- 110 °C × 2 h → Final Tg: 120–125 °C
- 125 °C × 1 h → Final Tg: 120–125 °C

* The reported properties correspond to laminates cured using these reference cycles.

Compatible technologies

- Autoclave (4–7 bar)
- Hot press (1–3 bar, depending on stage)
- Vacuum bag
- Wrapping

Processing notes

- Avoid fast thermal ramps in thick laminates (>1 cm).
- Allow the material to reach room temperature before use.

STORAGE

- 12 months at –18 °C
- 5 weeks at 23 °C

(Store in sealed bags, dry environment, and avoid condensation.)

NOTE

This technical data sheet is based on reproducible laboratory tests. Processing conditions may require adjustments depending on the user's equipment.

TECHNICAL PROPERTIES**Reinforcement properties (fabric V-202T-33%RW)**

	Range	Unit
Mass per unit area	200 $\pm$ 5 %	g/m ²
Standard width	1270 $\pm$ 2,5 %	mm
Theoretical laminate thickness*	0,20 $\pm$ 5 %	mm
Weave	2x2 Twill	-
Fibre type (warp/weft)	EC 9–68 tex	-
Thread count (warp/weft)	14 / 14	ends/cm
Weight distribution (warp/weft)	50 / 50	%
Tensile strength	180	N/cm
Metallic coating	Aluminium powder (1 side)	-
Coating thickness	10	μ m

* Theoretical thickness for an epoxy laminate with 40% fibre volume.

Product specifications (as supplied)

	Range	Unit
Cured resin density	1,15–1,25	g/cm ³
Tack	Medium–High	-
VOC in prepreg	<1	%

Cured resin properties (MTP305 system)

	Value	Unit
Tg (Tan δ DMA)	120	°C
Gel time at 125 °C	6–9	min
Gel time at 110 °C	20–26	min