

Tepex[®] dynalite 108–FG290(x)/45%

TPU–GF64

Print Date: 2025–08–21

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Filament Glass – TPU consolidated composite laminate

Tepex[®]
**BOND
LAMINATES**
 A company of Envalior

The datasheet is valid for this specific composition only, the characteristics of composites depend on reinforcement level and fiber orientation. Non–standard thickness may alter some or all of these properties. The data listed here are given as average product properties and should not be used to establish specification limits nor used alone as basis of design. The underlying tests were conducted at room temperature and (where possible) with 2 mm specimen thickness. For tensile and flexural tests a specimen width of 25 mm was used and is highly recommended to achieve representative results.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
LAYUP	VALUE		
Fiber	E–Glass 204 tex		
Weaving style	Twill 2/2		DIN ISO 9354
Area weight (dry fabric)	290	g/m ²	DIN EN 12127
Weight rate (0°/90°)	50/50	%/%	
Polymer	Thermoplastic Polyurethane (TPU)		
Fiber volume content	45	vol.–%	nominal
Thickness per layer	0.25	mm	nominal
MECHANICAL PROPERTIES	DRY / COND		
Tensile Modulus	23 / –	GPa	ISO 527–4/5
Tensile Strength	440 / –	MPa	ISO 527–4/5
Elongation at Break	2.3 / –	%	ISO 527–4/5
Flexural Modulus	21 / –	GPa	ISO 14125
Flexural Strength	690 / –	MPa	ISO 14125

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
THERMAL PROPERTIES		DRY / COND	
Density	1820 / –	kg/m³	ISO 1183
Glass transition temperature (10°C/min)	94 / *	°C	ISO 11357–1/–2
Heat deflection temperature (0.1% flex. Modulus)	92	°C	ISO 75–1/3
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
CLTE –35°C to 23°C (0°)	12.1	E–6/°C	ISO 11359–1/–2
CLTE 23°C to 80°C (0°)	13.7	E–6/°C	ISO 11359–1/–2

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