Property Data

Envalior
Imagine the Future

Tepex® dynalite 401–C200(2)–FG290(2)/45%

PA66–(GF+CF)59

Tepex® dynalite 401–C200(2)–FG290(2)/45%
Roving Glass – PA66 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	3K Carbon		
Weaving style	Twill 2/2		DIN ISO 9354
Area weight (dry fabric)	200	g/m²	DIN EN 12127
Weight rate (0°/90°)	50/50	%/%	
Fiber	E–Glass 204 tex		
Weaving style	Twill 2/2		DIN ISO 9354
Area weight (dry fabric)	290	g/m²	DIN EN 12127
Weight rate (0°/90°)	50/50	%/%	
Polymer	Polyamide 6.6 (PA66)		
Fiber volume content	45	vol.–%	nominal
Laminate thickness	1	mm	nominal
Thickness per layer	0.25	mm	nominal
MECHANICAL PROPERTIES	**DRY / COND**		
Flexural Modulus	43 / –	GPa	ISO 14125

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Flexural Strength	750 / –	MPa	ISO 14125
THERMAL PROPERTIES	**DRY / COND**		
Density	1600 / –	kg/m³	ISO 1183
Melting temperature (10°C/min)	260 / *	°C	ISO 11357–1/–3