

Tepex[®] dynalite 207–C200(x)/50%

PPS–CF58

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3K Carbon – PPS consolidated composite laminate

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/m ²	DIN EN 12127
Weight rate (0°/90°)	50/50	%/%	
Fiber volume content	50	vol.-%	nominal
Thickness per layer	0.22	mm	nominal

MECHANICAL PROPERTIES	DRY / COND		
Tensile Modulus	52 / –	GPa	ISO 527–4/5
Tensile Strength	750 / –	MPa	ISO 527–4/5
Elongation at Break	1.3 / –	%	ISO 527–4/5
Flexural Modulus	46 / –	GPa	ISO 14125
Flexural Strength	830 / –	MPa	ISO 14125

THERMAL PROPERTIES

DRY / COND



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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Density	1560 / –	kg/m³	ISO 1183
Glass transition temperature (10°C/min)	91 / *	°C	ISO 11357–1/–2
Melting temperature (10°C/min)	280 / *	°C	ISO 11357–1/–3
Heat deflection temperature (0.1% flex. Modulus)	270	°C	ISO 75–1/3
Burning Behav. at 1.5 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
CLTE –35°C to 23°C (0°)	3.8	E–4/°C	ISO 11359–1/–2
CLTE 23°C to 80°C (0°)	3.7	E–4/°C	ISO 11359–1/–2

