

ForTii® XS81B

PPA-GF50

50% Glass Reinforced, PA4T

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Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	17000 / 17000	MPa	ISO 527-1/-2
Stress at break	280 / 230	MPa	ISO 527-1/-2
Strain at break	2.5 / 2.3	%	ISO 527-1/-2
Flexural modulus	16500 / -	MPa	ISO 178
Flexural strength	380 / -	MPa	ISO 178
Charpy impact strength (+23°C)	90 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14.5 / -	kJ/m ²	ISO 179/1eA
Thermal properties dry / cond			
Melting temperature (10°C/min)	315 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	245 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.16 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.48 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	-
Other properties dry / cond			
Humidity absorption	1.75 / *	%	Sim. to ISO 62
Density	1630 / -	kg/m ³	ISO 1183