

ForTii® XS81B

PPA-GF50

50% Glass Reinforced, PA4T

ForTii® XS81B has excellent impact resistance and high stiffness. It's good processing ability allow for high cosmetic requirements and good bonding in various painting process. XS81B is very suitable for mobile phone middle frame applications due to low warpage and excellent performance in tumbling tests.

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	17500 / 18500	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 / 17500	MPa	ISO 178
Flexural strength	400 / 350	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14.5 / 12.5	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 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10



Property Data

ForTii[®] XS81B

Properties	Typical Data	Unit	Test Method
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Other properties	dry / cond		
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1630 / -	kg/m ³	ISO 1183

