

ForTii® K12

PPA-GF40

40% Glass Reinforced, PA4T, for E&E applications

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.35 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	13500 / -	MPa	ISO 527-1/-2
Stress at break	210 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Flexural modulus	13500 / -	MPa	ISO 178
Flexural strength	330 / -	MPa	ISO 178
Charpy impact strength (+23°C)	65 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / -	kJ/m ²	ISO 179/1eA
Thermal properties dry / cond			
Melting temperature (10°C/min)	325 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	305 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ASTM D696
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties dry / cond			
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 60093

Property Data

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Properties	Typical Data	Unit	Test Method
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Relative permittivity (100Hz)	5 / 5	-	IEC 60250
Relative permittivity (1 MHz)	4.5 / 4.5	-	IEC 60250
Other properties	dry / cond		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1530 / -	kg/m ³	ISO 1183