

## ForTii® K11 PPA-GF30

30% Glass Fiber Reinforced, PA4T, Electro-friendly

Print Date: 2025-04-10

ForTii® K11 combines excellent mechanical properties with low warpage for miniature applications such as Audio Jack and Camera Holder.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.3 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	11300 / 11500	MPa	ISO 527-1/-2
Tensile modulus (120°C)	8000 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	4500	MPa	ISO 527-1/-2
Tensile modulus (200°C)	4000	MPa	ISO 527-1/-2
Stress at break	190 / 170	MPa	ISO 527-1/-2
Stress at break (120°C)	125 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	85	MPa	ISO 527-1/-2
Stress at break (200°C)	70	MPa	ISO 527-1/-2
Strain at break	2/1.9	%	ISO 527-1/-2
Strain at break (120°C)	3.5 / –	%	ISO 527-1/-2
Strain at break (160°C)	5	%	ISO 527-1/-2
Strain at break (200°C)	5.5	%	ISO 527-1/-2
Flexural modulus	10500 / 11000	MPa	ISO 178
Flexural strength	290 / 260	MPa	ISO 178
Flexural modulus (120°C)	7500	MPa	ISO 178
Flexural modulus (160°C)	4500	MPa	ISO 178

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or

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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Flexural modulus (200°C)	4000	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 9	kJ/m²	ISO 179/1eA
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THERMAL PROPERTIES		00	TOO 110F7 1 / O
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)	0.18 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.5	E-4/°C	ASTM D696
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	HB / *	mm	IEC 60695-11-10
UL recognition	3/*	_	_
Thermal Index 5000 hrs	174	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631-3-1
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	V	IEC 60112
Relative permittivity (100Hz)	5/5	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4.5 / 4.5	_	IEC 62631-2-1
Relative permittivity (1GHz)	3.9 / 4	_	IEC 61189-2-721
Relative permittivity (10GHz)	3.8 / 3.9	_	IEC 61189-2-721
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2/*	%	Sim. to ISO 62
Density	1430 / -	kg/m³	ISO 1183

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Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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