

ForTii® K11 PPA-GF30

30% Glass Reinforced, PA4T, Good Flow, Electro-friendly

Print Date: 2024-09-17

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

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Property Data

ForTii® K11

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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
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)	0.5	E-4/°C	ASTM D696
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
UL recognition	Yes / *	_	
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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