

ForTii® Ace JTX8

PPA-GF30

30% Glass Reinforced, PA4T, for E&E applications, Electro-friendly, Improved resistance to blistering during reflow – soldering process

Print Date: 2019-10-16

ForTii® Ace JTX8 is the only polyamide grade in the world to have secured, in all product designs, the JEDEC MSL 1 (moisture sensitivity level 1) rating. This means that connector and component designers will be able to enjoy all the benefits of a polyamide material in creating a robust product, without worrying at all about blistering during assembly even after long shelf time.

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.43 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	10500 / 10500	MPa	ISO 527-1/-2
Tensile modulus (120°C)	9500 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	6000	MPa	ISO 527-1/-2
Tensile modulus (200°C)	4000	MPa	ISO 527-1/-2
Stress at break	210 / 190	MPa	ISO 527-1/-2
Stress at break (120°C)	150 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	100	MPa	ISO 527-1/-2
Stress at break (200°C)	75	MPa	ISO 527-1/-2
Strain at break	2.7 / 2.5	%	ISO 527-1/-2
Strain at break (120°C)	3 / -	%	ISO 527-1/-2
Strain at break (160°C)	5	%	ISO 527-1/-2
Strain at break (200°C)	8	%	ISO 527-1/-2
Flexural modulus	10000 / -	MPa	ISO 178
Flexural strength	300 / -	MPa	ISO 178
Flexural modulus (120°C)	9500	MPa	ISO 178

Property Data

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Properties	Typical Data	Unit	Test Method
Flexural modulus (160°C)	5700	MPa	ISO 178
Flexural modulus (200°C)	3900	MPa	ISO 178
Charpy impact strength (+23°C)	70 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA

Thermal properties

dry / cond

Melting temperature (10°C/min)	340 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	320 / *	°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
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	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 60093
Electric strength	45 / 40	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Relative permittivity (1GHz)	3.92 / 3.88	-	IEC 60250
Relative permittivity (10GHz)	3.83 / -	-	IEC 60250

Other properties

dry / cond

Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1460 / -	kg/m ³	ISO 1183