

## ForTii® Ace JTX8

## PA4T-GF30

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

Print Date: 2018-04-24

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage (parallel)	0.43 / *	%	ISO 294-4
Molding shrinkage (normal)	1.19 / *	%	ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
Tensile modulus	10500 / -	MPa	ISO 527-1/-2
Tensile modulus (120°C)	9000	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	200 / -	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	2.6 / -	%	ISO 527-1/-2
Strain at break (120°C)	3.5	%	ISO 527-1/-2
Strain at break (160°C)	5.8	%	ISO 527-1/-2
Strain at break (200°C)	8.2	%	ISO 527-1/-2
Flexural modulus	10000 / -	MPa	ISO 178
Flexural strength	310 / -	MPa	ISO 178
Flexural modulus (160°C)	5700	MPa	ISO 178
Flexural modulus (200°C)	3900	MPa	ISO 178
Charpy impact strength (+23°C)	70 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / -	kJ/m <sup>2</sup>	ISO 179/1eA

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## Property Data

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Print Date: 2018-04-24

Properties	Typical Data	Unit	Test Method
<b>Thermal properties</b> dry / cond			
Melting temperature (10°C/min)	340 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	322 / *	°C	ISO 75-1/-2
Burning Beh. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Beh. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
<b>Electrical properties</b> 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
<b>Other properties</b> dry / cond			
Density	1460 / -	kg/m <sup>3</sup>	ISO 1183

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