

ForTii[®] TX1 PA4T-GF30 FR(40)

30% Glass Reinforced, Flame Retardant, Halogen free and free of red phosphorous

			Print Date: 2018-04-13
Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
	dry (cond		
Mechanical properties	dry / cond		
Tensile modulus	12000 / 12000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	7500	MPa	ISO 527-1/-2
Tensile modulus (160°C)	5000	MPa	ISO 527-1/-2
Stress at break	150 / 150	MPa	ISO 527-1/-2
Stress at break (120°C)	90	MPa	ISO 527-1/-2
Stress at break (160°C)	65	MPa	ISO 527-1/-2
Strain at break	2 / 2	%	ISO 527-1/-2
Strain at break (120°C)	2.7	%	ISO 527-1/-2
Strain at break (160°C)	3.7	%	ISO 527-1/-2
Flexural modulus	11500 / 11500	MPa	ISO 178
Flexural strength	245 / 230	MPa	ISO 178
Charpy impact strength (+23°C)	47 / 47	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9/9	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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65 / *	E−4/°C	ISO 11359-1/-2

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Property Data ForTii[®] TX1

Relative permittivity (100Hz)

Relative permittivity (1 MHz)

Relative permittivity (1GHz)

Other properties Humidity absorption

Density

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IEC 60250

IEC 60250

IEC 60250

Sim. to ISO 62

ISO 1183

Properties	Typical Data	Unit	Test Method
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.35	E−4/°C	ASTM D696
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.35 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Relative Temperature Index - electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Electrical properties	dry / cond		
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112

4.2 / 4.2

3.9 / 3.9

3.9 / 3.9

dry / cond

1.5 / *

1460 / -

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%

kg/m³

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