

ForTii[®] F12 PA4T-GF40 FR(40)

40% Glass Reinforced, Flame Retardant, Halogen free and free of red phosphorous

Print Date: 2018-03-29

Properties	Typical Data	Unit	Test Method
Phoelogical proporties	dry / cond		
Rheological properties			
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.85 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	13500 / 13500	MPa	ISO 527-1/-2
Stress at break	170 / 170	MPa	ISO 527-1/-2
Strain at break	1.9 / 1.9	%	ISO 527-1/-2
Flexural modulus	14500 / 14500	MPa	ISO 178
Flexural strength	280 / 260	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 65	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 11	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)	0.35	E-4/°C	ASTM D696
Burning Behav. at 1.5 mm nom. thickn.	V-o / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	_
Burning Behav. at thickness h	V-o / *	class	IEC 60695-11-10
Thickness tested	0.2 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	
Relative Temperature Index - electrical	140	°C	UL746B

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Typical values are indicative only and are not to be construed as being binding specifications. This document replaces all previous versions relating to this subject.

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Properties	Typical Data	Unit	Test Method
RTI electrical (Thickness (1) tested)	0.35	mm	UL746B
Electrical properties	dry / cond		
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 60093
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Relative permittivity (100Hz)	4.2 / 4.2	-	IEC 60250
Relative permittivity (1 MHz)	3.9 / 3.9	-	IEC 60250
Other properties	dry / cond		
Humidity absorption	1.45 / *	%	Sim. to ISO 62
Density	1550 / -	kg/m³	ISO 1183

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