

ForTii® F81

PPA-GF15 FR(40)

15% Glass Reinforced, PA4T, Improved flow, Flame Retardant, Halogen free and free of red phosphorous

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.5 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	7000 / 7000	MPa	ISO 527-1/-2
Stress at break	105 / 110	MPa	ISO 527-1/-2
Strain at break	2 / 2.1	%	ISO 527-1/-2
Flexural modulus	7000 / 7000	MPa	ISO 178
Flexural strength	180 / 175	MPa	ISO 178
Charpy impact strength (+23°C)	30 / 30	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 7	kJ/m ²	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)	300 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.55	E-4/°C	ASTM D696
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Electrical properties dry / cond			
Electric strength	33 / -	kV/mm	IEC 60243-1

Property Data

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Properties	Typical Data	Unit	Test Method
Comparative tracking index	600 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	2.15 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183