

ForTii® F81

PPA-GF15 FR(40)

15% Glass Reinforced, PA4T, Electro-friendly, Halogen free and free of red phosphorous

ForTii® F81 has good balance of high flow and mechanical performance and is certified all color VO down to 0.35 mm.

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 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 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10



Property Data

ForTii[®] F81

Properties	Typical Data	Unit	Test Method
UL recognition	Yes / *	-	-
Electrical properties	dry / cond		
Electric strength	33 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183

