

# ForTii® XS51

## PPA-GF FR(40)

50% Glass Reinforced, PA4T, Flame Retardant, Halogen free and free of red phosphorous

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b> dry / cond			
Molding shrinkage (parallel)	0.38 / *	%	ISO 294-4
Molding shrinkage (normal)	0.59 / *	%	ISO 294-4
<b>Mechanical properties</b> dry / cond			
Tensile modulus	18500 / 18500	MPa	ISO 527-1/-2
Stress at break	230 / 210	MPa	ISO 527-1/-2
Strain at break	2.3 / 2	%	ISO 527-1/-2
Flexural modulus	17000 / 17000	MPa	ISO 178
Flexural strength	350 / 310	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	13.5 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b> dry / cond			
Temp. of deflection under load (1.80 MPa)	250 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
<b>Electrical properties</b> dry / cond			
Electric strength	30 / -	kV/mm	IEC 60243-1
<b>Other properties</b> dry / cond			
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1670 / -	kg/m <sup>3</sup>	ISO 1183