

Product Texts

30% Glass Reinforced, PA4T, Food Contact Quality, Drinking Water Grade

ISO 1043 PPA-GF30

ForTii Ace WX51-FC has best in class high temperature and wet mechanical performance, weldline strength and weldline strength retention in hot water and steam. For detailed statements and information regarding food contact and water contact approvals please contact your Envalior representative.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11000 / 11000	MPa	ISO 527
^[C] Stress at break	210 / 190	MPa	ISO 527
^[C] Strain at break	2.6 / 2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	70 / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	65 / 55	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 8	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	340 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	320 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	335 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	18 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	45 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	4.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2 / *	%	Sim. to ISO 62
^[C] Density	1460 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 130	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	350 - 370	°C	-

ForTii® Ace WX51-FC

PPA-GF30

Envalior

Mold temperature	120 - 200	°C	-
Zone 1	330 - 340	°C	-
Zone 2	340 - 350	°C	-
Zone 3	340 - 350	°C	-
Nozzle temperature	350 - 370	°C	-
Back pressure	0.5 - 3	MPa	-

Characteristics**Processing**

Injection Molding

Certifications

Food contact, Drinking water contact

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information**Injection molding**[Injection Molding Recommendations](#)