

TECHNICAL DATA SHEET

# ForTii® WX12-FC

Envalior  
PPA-GF40

**Processing**

Injection molding

**Delivery Form**

Pellets

**Chemical Resistance**

Hydrolytically stable

**Certifications**

Food contact, Drinking water contact

## Product Text

**Product Information**

40% Glass Reinforced, PA4T, Food Contact Quality, Drinking Water Grade

ISO 1043 PPA-GF40

ForTii WX12-FC has excellent hydrolysis resistance, processability and surface quality and is ideal for complex and thin walled food and water contact applications. For detailed statements and information regarding food contact and water contact approvals please contact your Envalior representative.

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.35	%	ISO 294-4, 2577
Molding shrinkage, normal	1	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	14500	MPa	ISO 527
Stress at break	225	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
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
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10

# ForTii® WX12-FC

Envalior

Thermal Properties	Value	Unit	Standard
Thickness tested	1.5	mm	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	35	kV/mm	IEC 60243-1
Other Properties	Value	Unit	Standard
Humidity absorption	1.6	%	Sim. to ISO 62
Density	1540	kg/m <sup>3</sup>	ISO 1183

## Processing Information

### ***Injection molding***

Injection Molding Recommendations

Hot runner recommendations for molding high heat performance Engineering Materials

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding