

ForTii[®] WX12–FC

PPA–GF40

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

Print Date: 2026–04–22

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.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.35 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	14500 / 14800	MPa	ISO 527–1/–2
Tensile modulus (–40°C)	14800 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	9500 / –	MPa	ISO 527–1/–2
Stress at break	225 / 200	MPa	ISO 527–1/–2
Stress at break (–40°C)	250 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	130 / –	MPa	ISO 527–1/–2
Strain at break	2.1 / 2	%	ISO 527–1/–2
Strain at break (–40°C)	2.2 / –	%	ISO 527–1/–2
Strain at break (120°C)	5 / –	%	ISO 527–1/–2
Flexural modulus	14000 / –	MPa	ISO 178
Flexural strength	350 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	11 / –	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)	305 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3	E–4/°C	ASTM D696

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Property Data (Provisional)

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (normal)	0.35	E–4/°C	ASTM D696
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
UL recognition	Yes / *	–	–
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631–3–1
Electric strength	35 / –	kV/mm	IEC 60243–1
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1540 / –	kg/m ³	ISO 1183

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