

TECHNICAL DATA SHEET

ForTii® WX11-FC

Envalior
PPA-GF30

Processing

Injection molding

Pellets

Certifications

Food contact, Drinking water contact

Delivery Form

Product Text

Product Information

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

ISO 1043 PPA-GF30

ForTii WX11-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	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.2	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	11300	MPa	ISO 527
Stress at break	200	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	60	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	325	°C	ISO 11357-1/-3

ForTii® WX11-FC

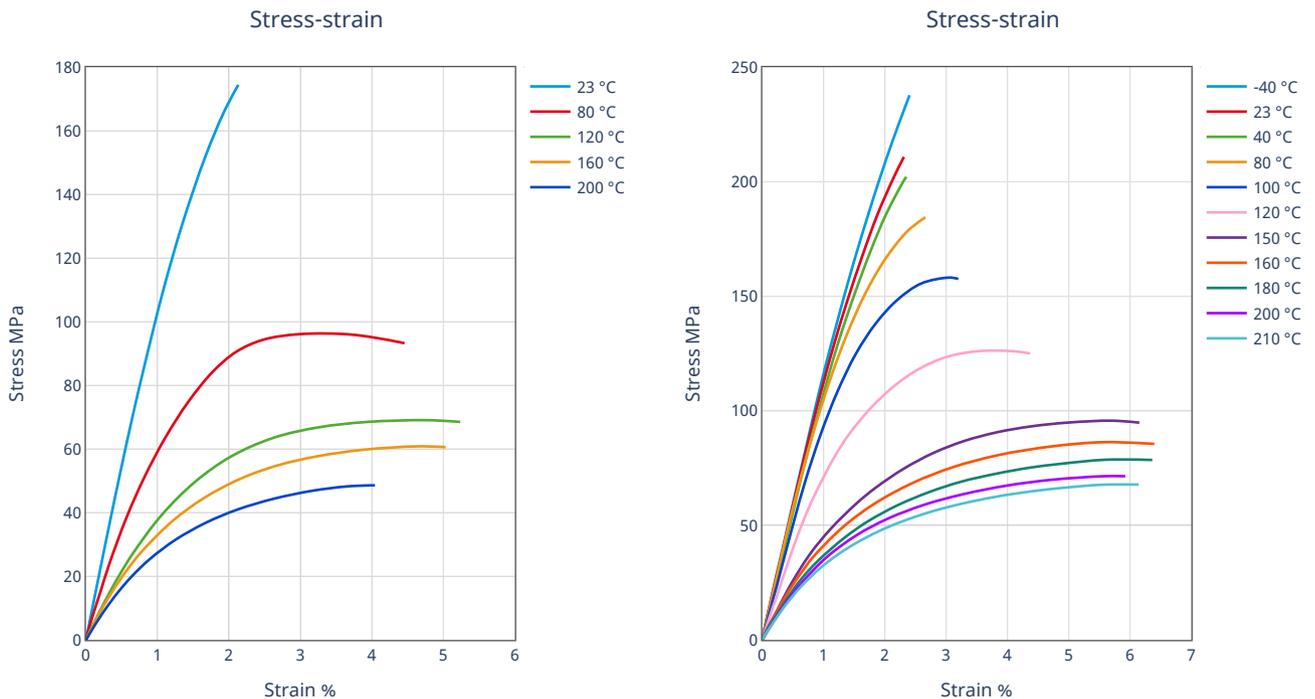
Envalior

Thermal Properties	Value	Unit	Standard
Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	305	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	320	°C	ISO 75-1/-2
Burning behav. at thickness h	HB class		IEC 60695-11-10
Thickness tested	3	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
Comparative tracking index	600		IEC 60112

Other Properties	Value	Unit	Standard
Water absorption	5.1	%	Sim. to ISO 62
Humidity absorption	2	%	Sim. to ISO 62
Density	1430	kg/m ³	ISO 1183

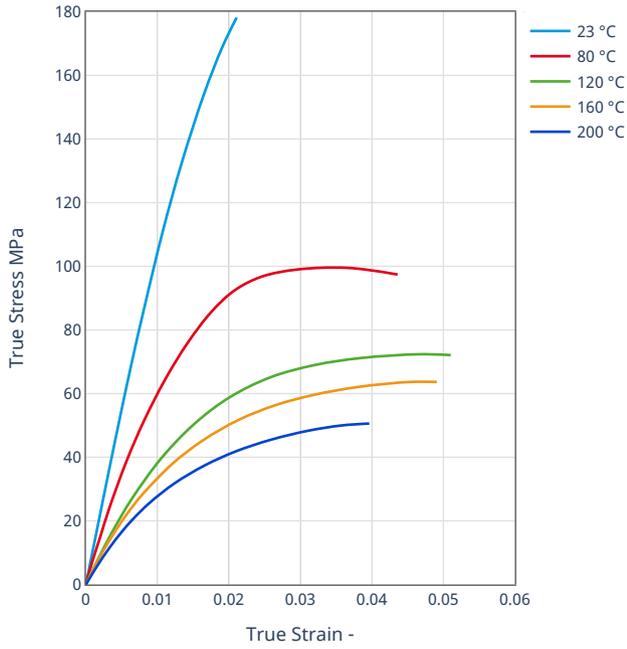
Diagrams



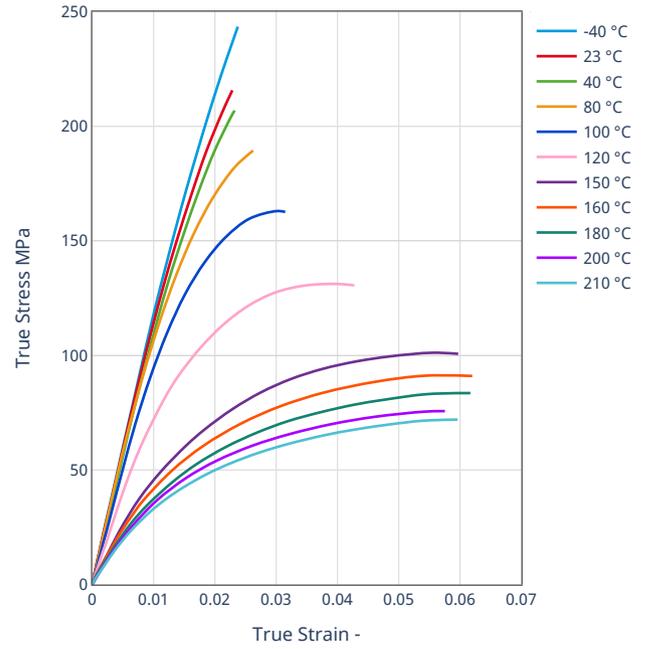
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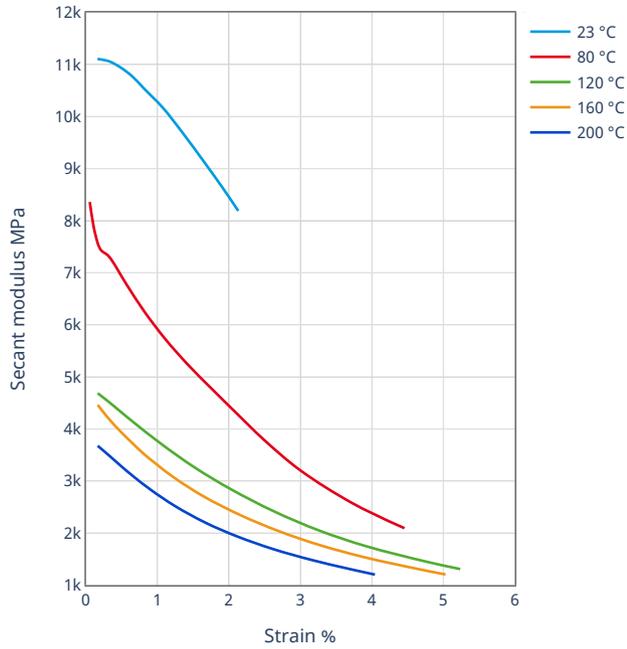
True stress-true strain



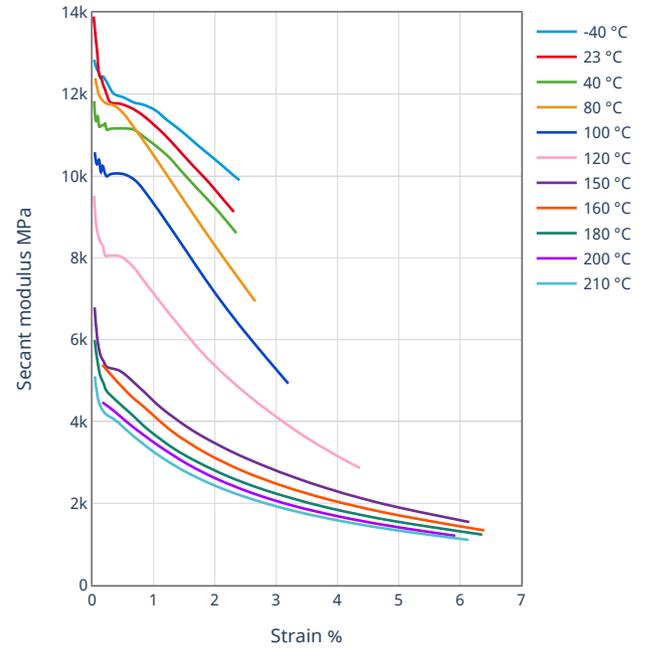
True stress-true strain



Secant modulus-strain



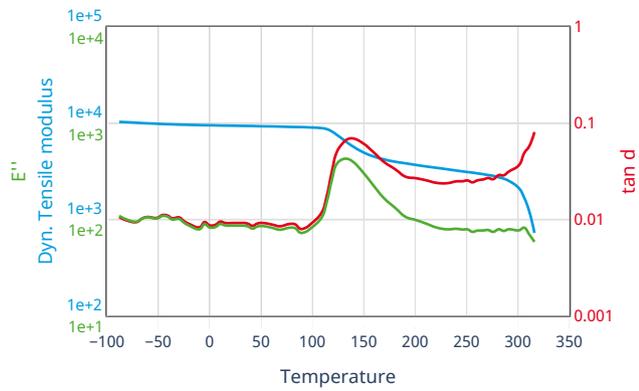
Secant modulus-strain



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Dynamic tensile modulus-temperature



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