TECHNICAL DATA SHEET

Xytron™ G4020DW-FC

Envalior

PPS-GF40

Processing

Injection molding

Special Characteristics

Flame retardant

Delivery Form

Granules

Certifications

Food contact, Drinking water contact

Product Text

Product Information

40% Glass Reinforced, Drinking Water Grade, Food Contact Quality, Flame Retardant

ISO 1043 PPS-GF40

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Standard
Tensile modulus	15000	MPa	ISO 527
Stress at break	200	MPa	ISO 527
Strain at break	2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	60	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	62	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	10.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	280	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	90	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	265	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	15	E-6/K	ISO 11359-1/-2

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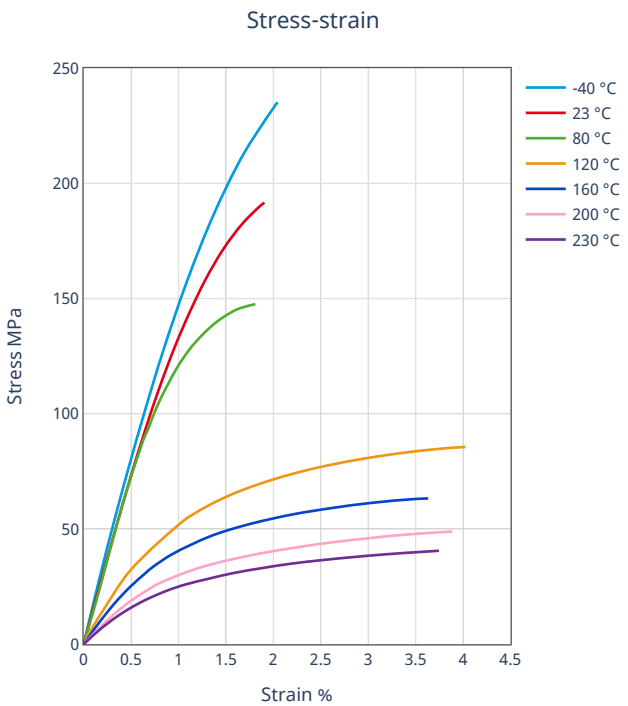
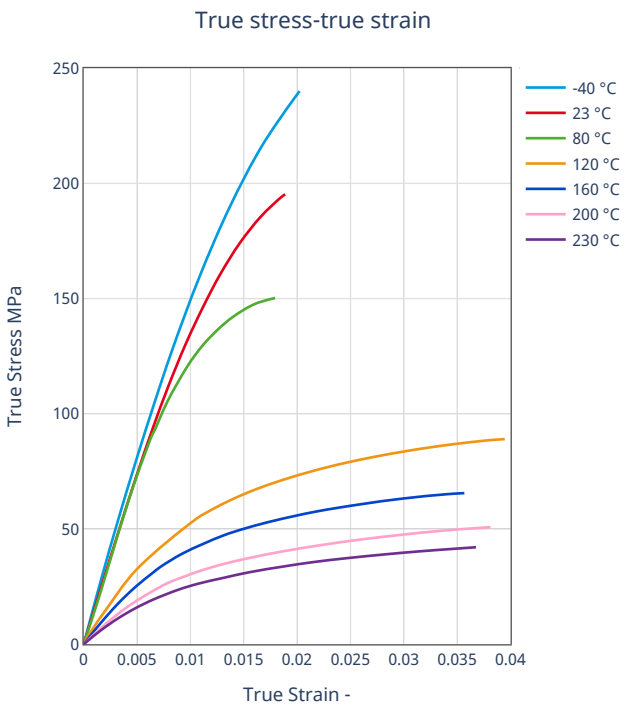
Thermal Properties	Value	Unit	Standard
Coeff. of linear therm. expansion, normal	40	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	
Yellow card available	yes		

Electrical Properties	Value	Unit	Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	22	kV/mm	IEC 60243-1
Comparative tracking index	150		IEC 60112

Other Properties	Value	Unit	Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1650	kg/m³	ISO 1183

Diagrams





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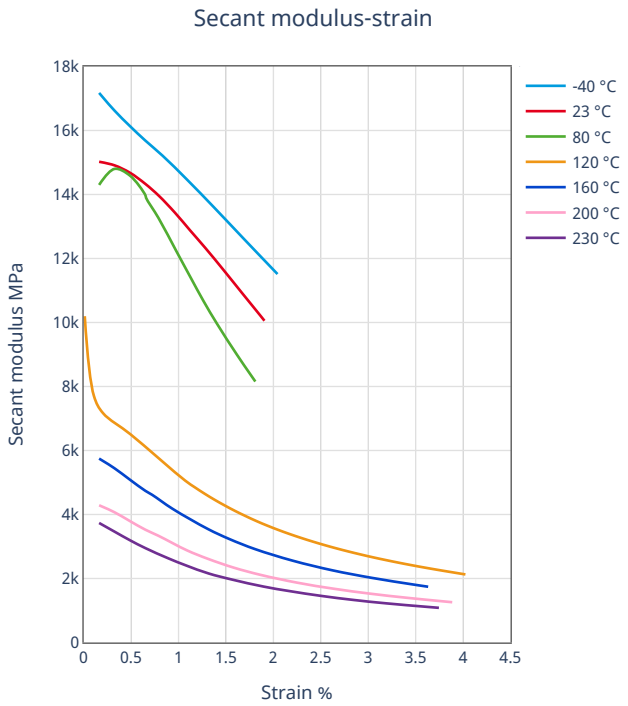

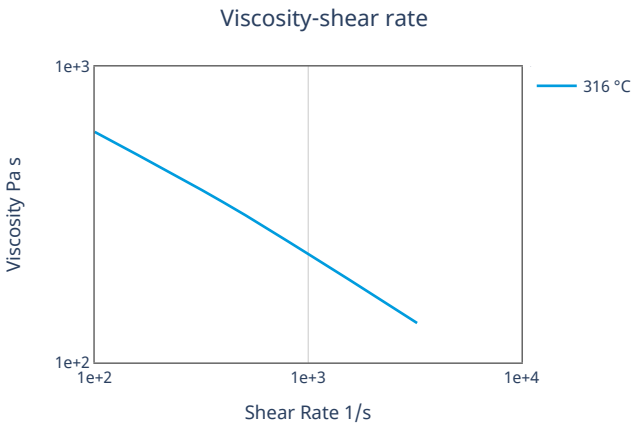

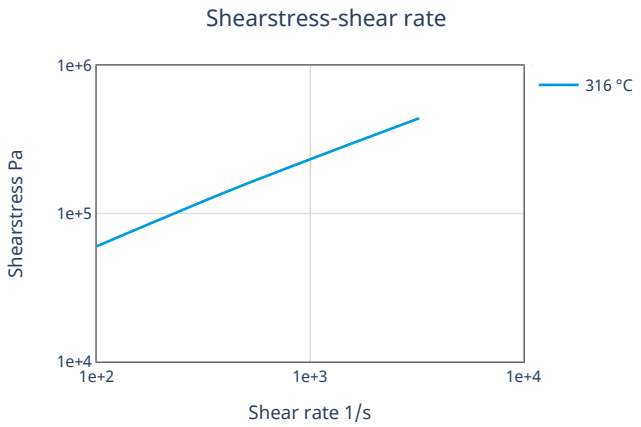

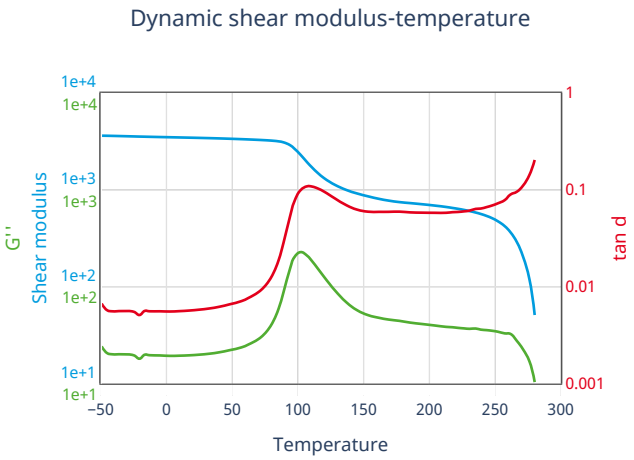

Processing Information

Injection molding

Injection Molding Recommendations
Hot runner recommendations for molding high heat performance Engineering Materials
Recommendations for machining Xytron