

TECHNICAL DATA SHEET

Xytron™ G4010T

Envalior
PPS-GF40

Processing

Injection molding

Granules

Special Characteristics

Flame retardant

Delivery Form

Product Text

Product Information

40% Glass Reinforced, Flame Retardant, Improved flow

ISO 1043 PPS-GF40

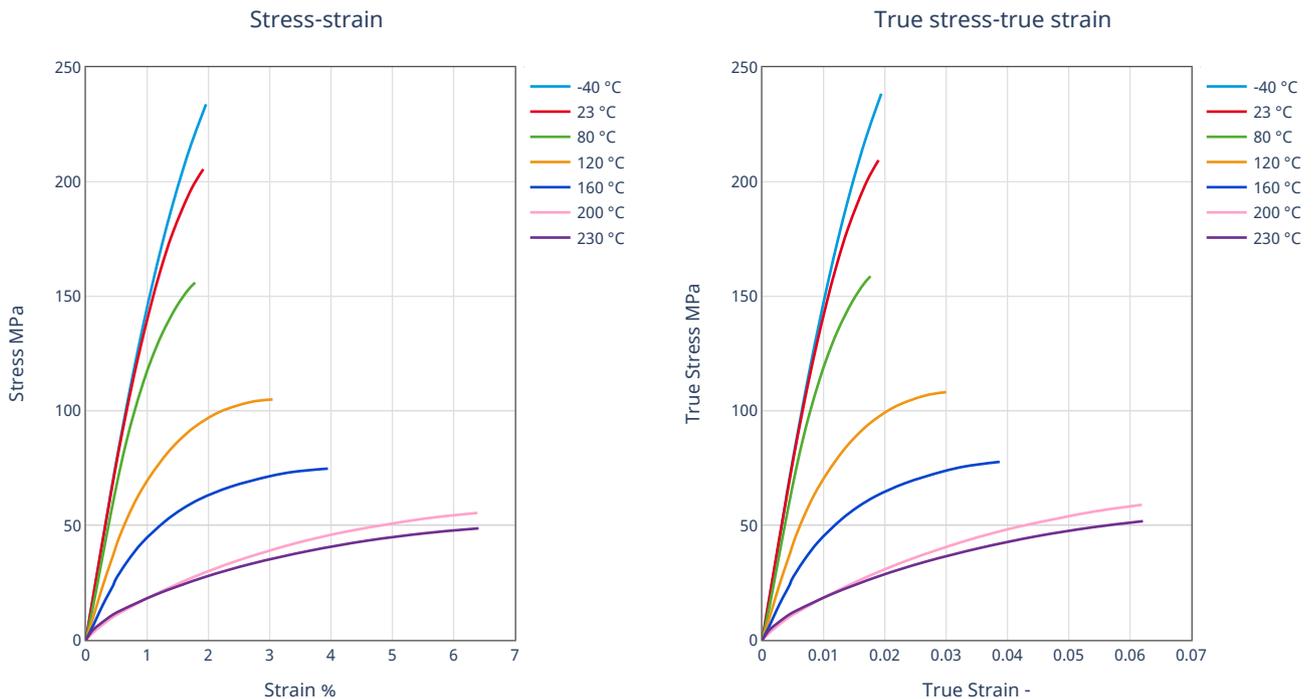
Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	15000	MPa	ISO 527
Stress at break	200	MPa	ISO 527
Strain at break	2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	56	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	57	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	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
Temp. of deflection under load, 0.45 MPa	280	°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 1.5 mm nom. thicken.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Yellow card available	yes		
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	31	kV/mm	IEC 60243-1
Comparative tracking index	175		IEC 60112
Other Properties	Value	Unit	Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1650	kg/m ³	ISO 1183

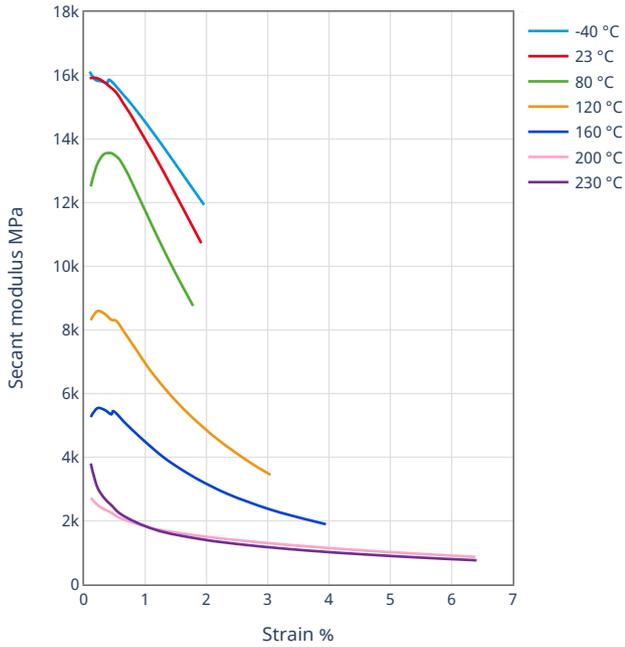
Diagrams



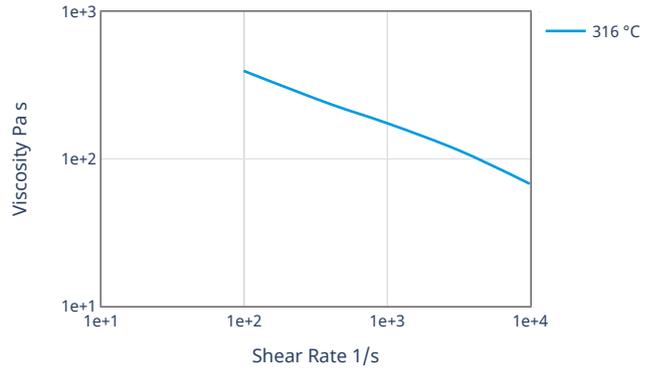
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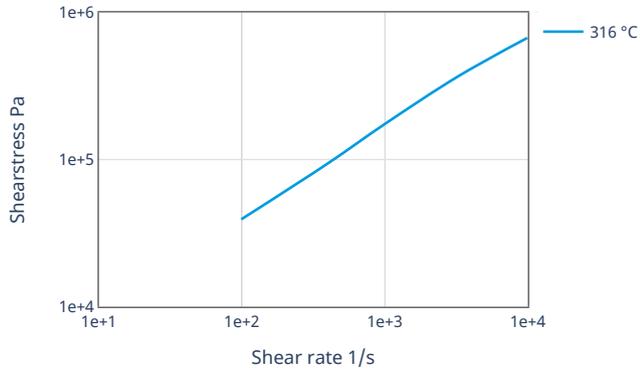
Secant modulus-strain



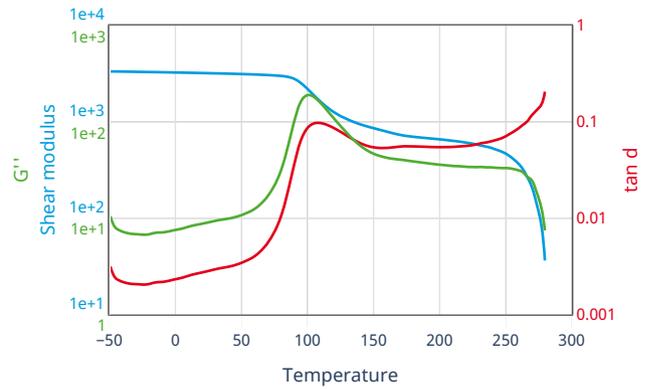
Viscosity-shear rate



Shearstress-shear rate



Dynamic shear modulus-temperature



Processing Information

Injection molding

Injection Molding Recommendations

Hot runner recommendations for molding high heat performance Engineering Materials

Recommendations for machining Xytron