

TECHNICAL DATA SHEET

Arnite® TV4 264 SN

Envalior
PBT-GF30 FR(17)

Processing

Injection molding

Delivery Form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant

Product Text

Product Information

30% Glass Reinforced, Flame Retardant

ISO 1043 PBT-GF30 FR(17)

Processing/Physical Characteristics	Value	Unit	Standard
Density of melt	1440	kg/m ³	
Thermal conductivity of melt	0.153	W/(m K)	
Spec. heat capacity of melt	1740	J/(kg K)	
Eff. thermal diffusivity	6.12E-8	m ² /s	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	11500	MPa	ISO 527
Stress at break	140	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	45	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2

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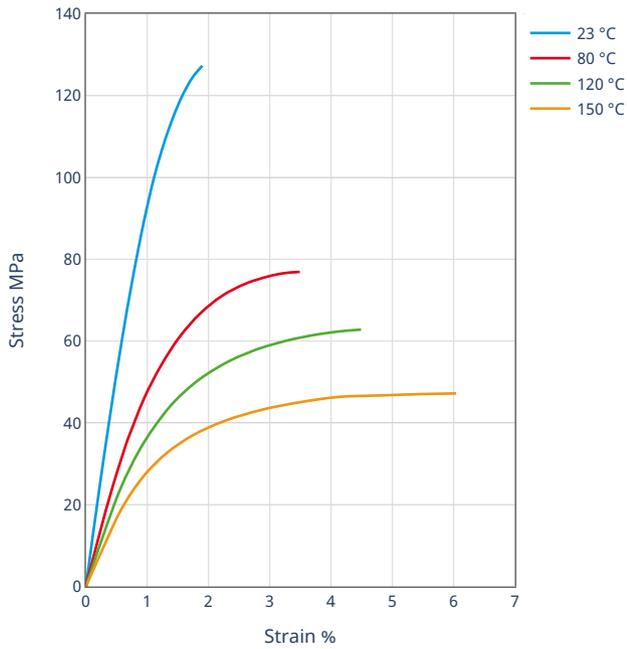
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	35	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness 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
Relative permittivity, 100Hz	3.7		IEC 62631-2-1
Relative permittivity, 1MHz	3.5		IEC 62631-2-1
Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	160	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	200		IEC 60112
Other Properties	Value	Unit	Standard
Density	1700	kg/m ³	ISO 1183

Diagrams

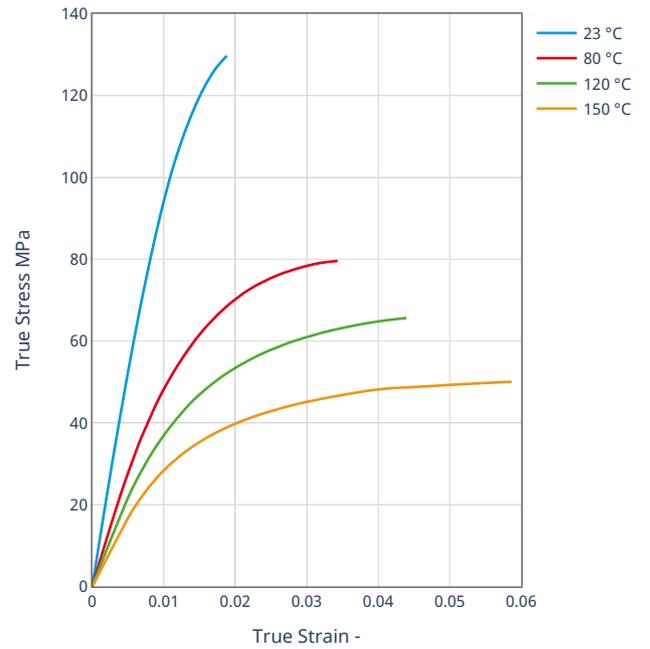
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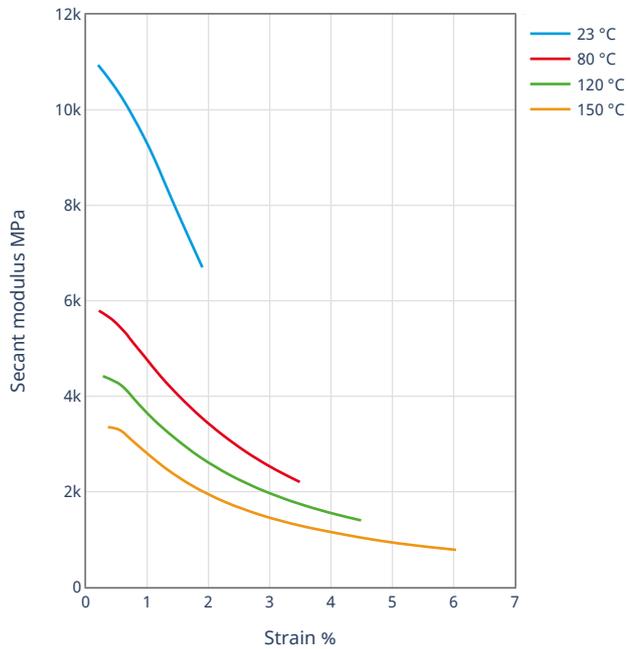
Stress-strain



True stress-true strain



Secant modulus-strain



Processing Information

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Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Supporting document for Stanyl quality processing