

TECHNICAL DATA SHEET

Arnite® AV2 365 SN

Envalior
PET-GF33 FR(17)

Processing

Injection molding

Delivery Form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant

Product Text

Product Information

33% Glass Reinforced, Flame Retardant

ISO 1043 PET-GF33 FR(17)

Processing/Physical Characteristics	Value	Unit	Standard
Density of melt	1350	kg/m ³	
Thermal conductivity of melt	0.195	W/(m K)	
Spec. heat capacity of melt	1670	J/(kg K)	
Eff. thermal diffusivity	8.67E-8	m ² /s	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	13500	MPa	ISO 527
Stress at break	165	MPa	ISO 527
Strain at break	2	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	50	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	50	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	255	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	240	°C	ISO 75-1/-2

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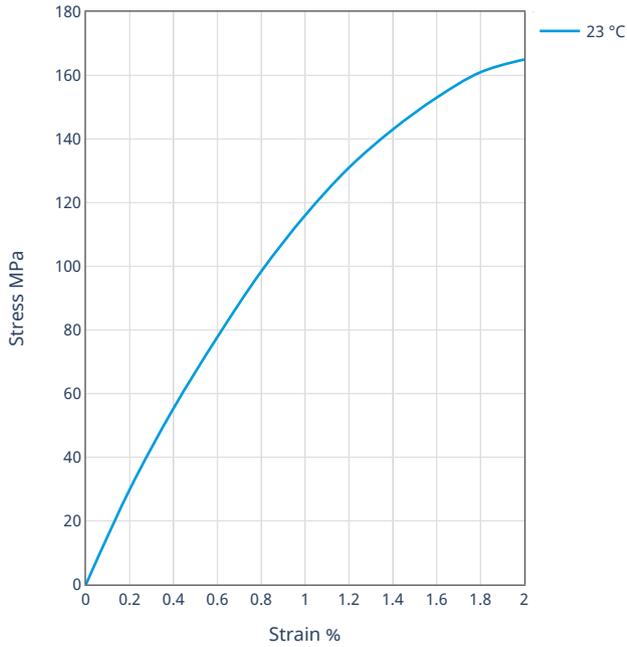
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 0.45 MPa	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness 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		
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.1	mm	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	3.5		IEC 62631-2-1
Relative permittivity, 1MHz	3.8		IEC 62631-2-1
Dissipation factor, 100Hz	10	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	140	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
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1750	kg/m ³	ISO 1183

Diagrams

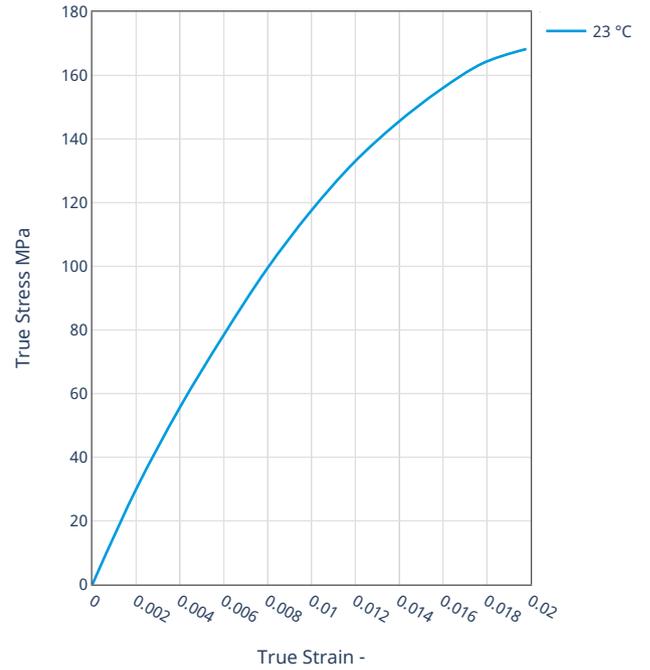
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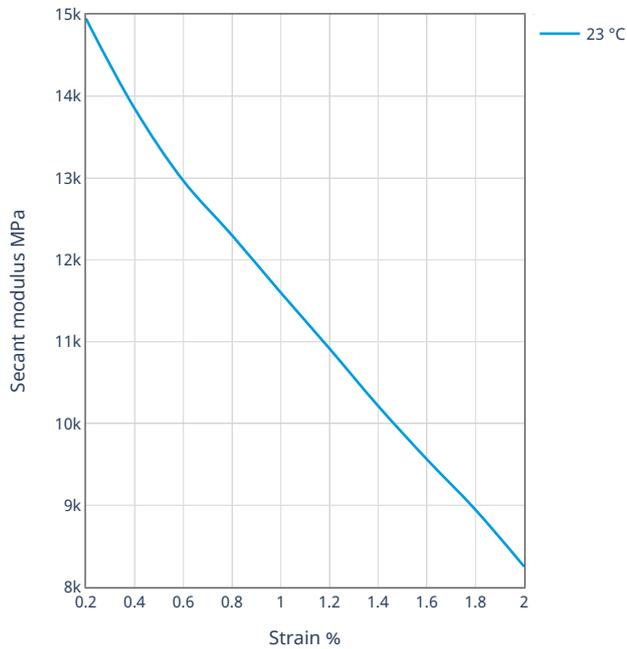
Stress-strain



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