



Arnite® TV4 240 PBT-GF20

Envalior

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20% Glass Reinforced

theological properties	Value	Unit	Test Standard
SO Data Melt volume-flow rate, MVR	23	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	
Loau	2.10	Ng .	
Mechanical properties	Value	Unit	Test Standard
SO Data	Value	Onne	rest Standard
Tensile Modulus	7200	MPa	ISO 527
Stress at break	120	MPa	ISO 527
Strain at break	3	%	ISO 527
Charpy impact strength, +23°C	35	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	35	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m²	ISO 179/1eA
Fhermal properties SO Data	Value	Unit	Test Standard
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Femp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	40	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	НВ	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	_
Oxygen index	20	%	ISO 4589-1/-2
70			
Electrical properties	Value	Unit	Test Standard
SO Data			
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	180	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	400	-	IEC 60112
Other properties	Value	Unit	Test Standard
SO Data	value	Onit	Test Stanuard
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1450	kg/m³	ISO 1183

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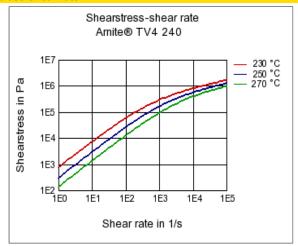
Rheological calculation properties ISO Data	Value	Unit	Test Standard
Density of melt	1220	kg/m³	-
Thermal conductivity of melt	0.25	W/(m K)	-
Spec. heat capacity of melt	1850	J/(kg K)	-
Eff. thermal diffusivity	1.11E-7	m²/s	-

Diagrams

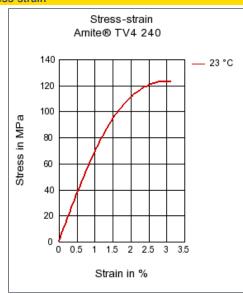
Viscosity-shear rate

Viscosity-shear rate Armite® TV4 240 1E3 230 °C 250 °C 270 °C 1E1 1E0 1E1 1E0 1E1 1E2 1E3 1E4 1E5 Shear rate in 1/s

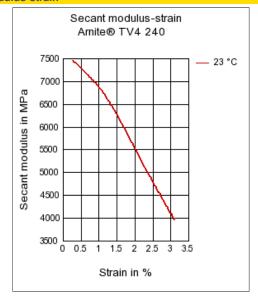
Shearstress-shear rate



Stress-strain



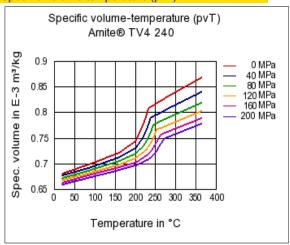
Secant modulus-strain



Arnite® TV4 240

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Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Other text information

Injection Molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Supporting document for Stanyl quality processing

Chemical Media Resistance

Alcohols

Methanol (23°C)

ethanol (23°C)

Hydrocarbons

U Toluene (23°C)

Ethers

Diethyl ether (23°C)

Other

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Water (23°C)