

Arnite® TV4 270

PBT-GF35

35% Glass Reinforced, Food Contact Quality

Print Date: 2022-07-26

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Molding shrinkage [normal]	1.1	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.3	%	Sim. to ISO 294-4
Mechanical properties			
	Value		
Tensile modulus	11500	MPa	ISO 527-1/-2
Stress at break	155	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	13	kJ/m ²	ISO 179/1eA
Thermal properties			
	Value		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	213	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	224	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10

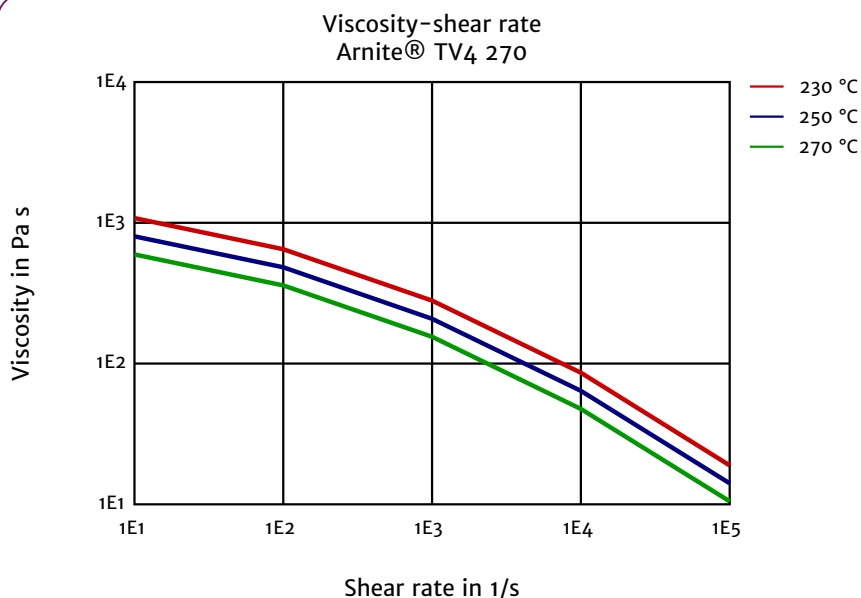
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Properties	Typical Data	Unit	Test Method
Electrical properties		Value	
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	475	V	IEC 60112
Other properties		Value	
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1570	kg/m ³	ISO 1183

Viscosity-shear rate



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