

Arnite[®] TV4 270

PBT–GF35

35% Glass Reinforced, Food Contact Quality

Print Date: 2024–03–27

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>VALUE</i>		
Molding shrinkage [normal]	1.1	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.3	%	Sim. to ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>VALUE</i>		
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
<i>THERMAL PROPERTIES</i>			
	<i>VALUE</i>		
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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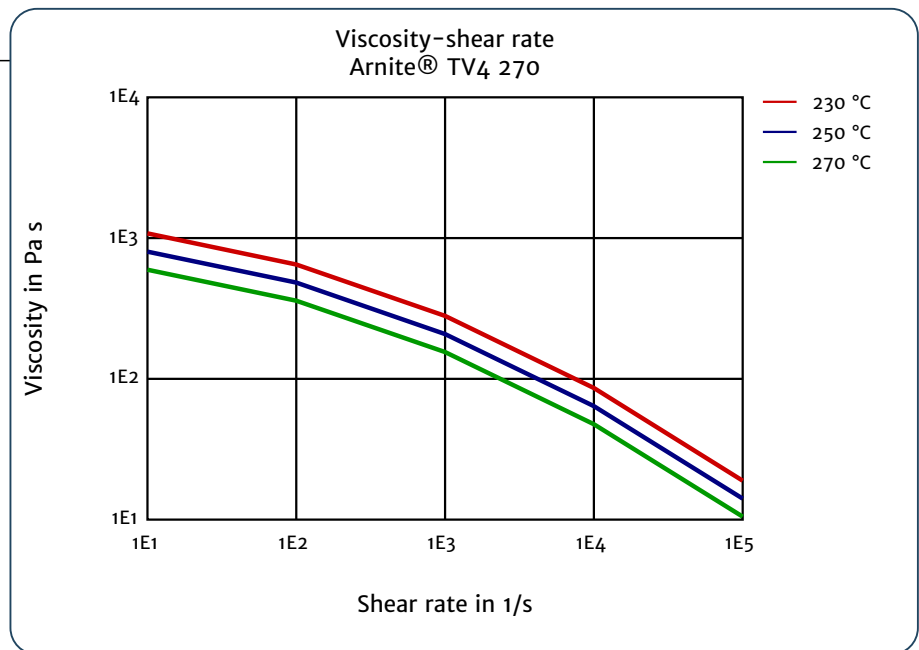
Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
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			
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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