Arnite®

Arnite® AV2 390 XT

PET-GF50

50% Glass Reinforced, Applications with extremely narrow tolerances

Print Date: 2017-11-03

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Molding shrinkage [normal]	0.8	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.45	%	Sim. to ISO 294-4
Mechanical properties	Value		
Tensile modulus	18500	MPa	ISO 527-1/-2
Stress at break	205	MPa	ISO 527-1/-2
Strain at break	1.6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8.5	kJ/m²	ISO 179/1eA
Thermal properties	Value		
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	232	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.35	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.47	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.81	mm	IEC 60695-11-10

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Property Data

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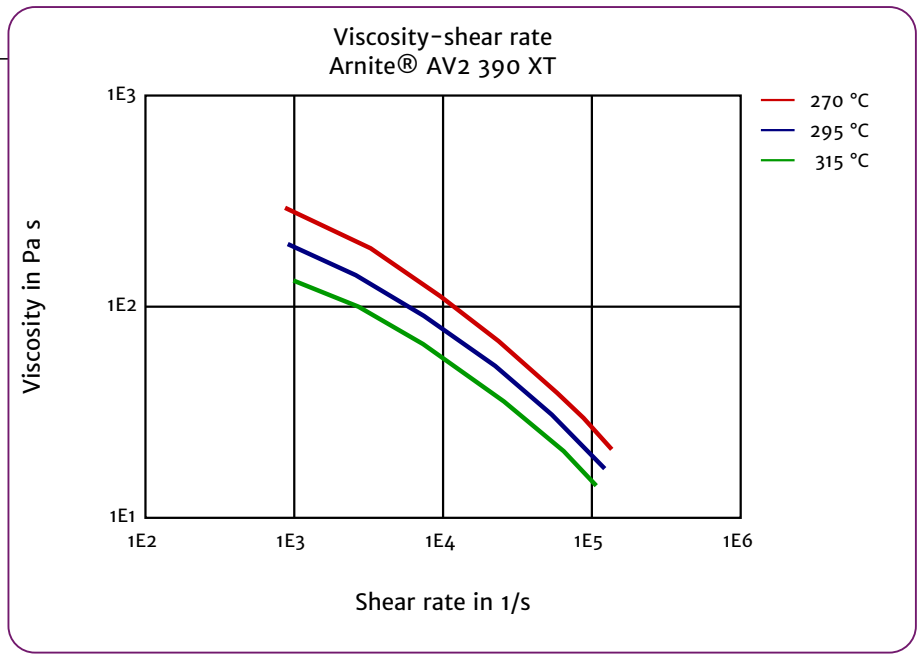
Properties	Typical Data	Unit	Test Method
Electrical properties	**Value**		
Relative permittivity (100Hz)	3.8	-	IEC 60250
Relative permittivity (1 MHz)	3.5	-	IEC 60250
Dissipation factor (100 Hz)	20	E-4	IEC 60250
Dissipation factor (1 MHz)	110	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Other properties	**Value**		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1800	kg/m³	ISO 1183

Viscosity-shear rate



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