Arnite®

Arnite® A-X08582

PET-GF35

35% Glass Reinforced

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Molding shrinkage [normal]	0.95	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.25	%	Sim. to ISO 294-4
Mechanical properties	Value		
Tensile modulus	12000	MPa	ISO 527-1/-2
Stress at break	170	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50	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
Thermal properties	Value		
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	230	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	240	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-1/-2
Electrical properties	Value		
Relative permittivity (100Hz)	3.3	-	IEC 60250
Relative permittivity (1 MHz)	3.1	-	IEC 60250
Dissipation factor (100 Hz)	30	E-4	IEC 60250

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Property Data (Provisional)

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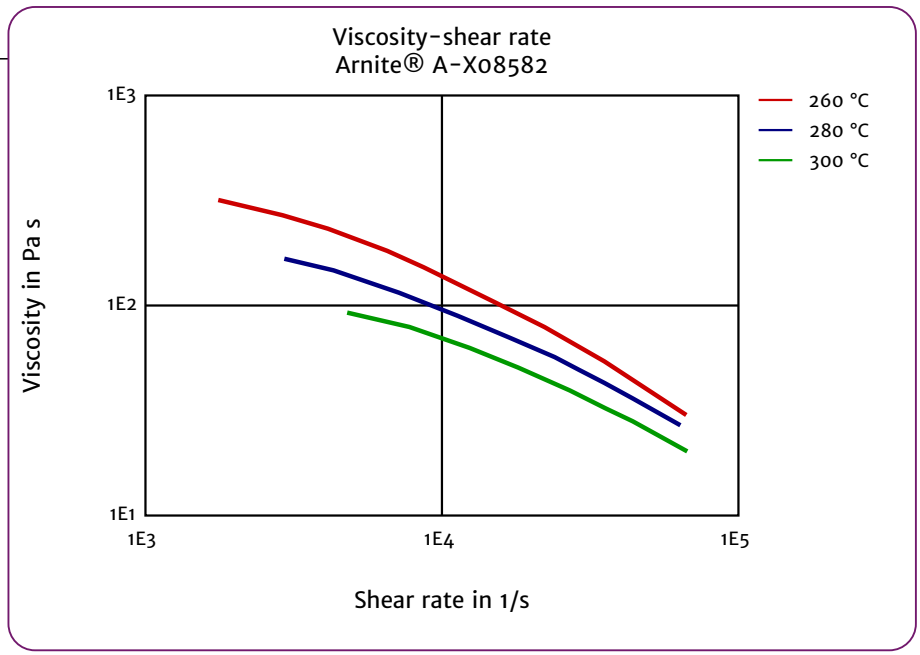
Properties	Typical Data	Unit	Test Method
Dissipation factor (1 MHz)	130	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	34	kV/mm	IEC 60243-1
Comparative tracking index	250	V	IEC 60112

Other properties	Value		
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1640	kg/m³	ISO 1183

Viscosity-shear rate



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