Property Data

Envalior
Imagine the Future

Arnite® AV2 390

PET–GF50

50% Glass Reinforced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage [normal]	0.8	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.2	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	19000	MPa	ISO 527–1/–2
Stress at break	210	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Flexural modulus	17500	MPa	ISO 178
Flexural strength	330	MPa	ISO 178
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9	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)	240	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	252	°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
ELECTRICAL PROPERTIES	**VALUE**		
Relative permittivity (100Hz)	3.8	–	IEC 62631–2–1

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Relative permittivity (1 MHz)	3.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	20	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	110	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Comparative tracking index	250	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A

OTHER PROPERTIES	*VALUE*		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1780	kg/m³	ISO 1183

Viscosity–shear rate