Property Data

Envalior
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Arnite® AV2 390 XT

PET–GF50

50% Glass Fiber Reinforced, Applications with extremely narrow tolerances

Print Date: 2025–10–04

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	1.7	%	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)	0.13	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.48	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES	**VALUE**		
Relative permittivity (100Hz)	3.8	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	20	E–4	IEC 62631–2–1

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Dissipation factor (1 MHz)	110	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

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