Property Data

Envalior
Imagine the Future

Arnite® AV2 370 XL–T

PET–GF35

35% Glass Reinforced, Low Outgassing, Thermal conductive material

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage [normal]	0.9	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.3	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	14000	MPa	ISO 527–1/–2
Stress at break	150	MPa	ISO 527–1/–2
Strain at break	1.5	%	ISO 527–1/–2
Flexural modulus	15000	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Charpy impact strength (+23°C)	40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°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)	235	°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)	0.25	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.4	E–4/°C	ISO 11359–1/–2
Thermal conductivity in plane	1.6	W/(m K)	ASTM E1461
Thermal conductivity through plane	0.65	W/(m K)	ASTM E1461
ELECTRICAL PROPERTIES	**VALUE**		
Dielectric Constant @ F1	14	–	IEC 60250

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Frequency F1	1	GHz	IEC 60250
Volume resistivity	3E11	Ohm*m	IEC 62631–3–1
Electric strength	1.1	kV/mm	IEC 60243–1

OTHER PROPERTIES	*VALUE*		
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1670	kg/m³	ISO 1183

Dielectric Constant – Frequency