

Arnite[®] AV2 370 XL-T

PET-GF35

35% Glass Reinforced, Low Outgassing, Thermal conductive material

Print Date: 2024-03-27

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
Charpy impact strength (+23°C)	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7	kJ/m ²	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
Frequency F1	1	GHz	IEC 60250
Volume resistivity	3E11	Ohm*m	IEC 62631-3-1

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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

