

Arnite[®] TV4 461 KL

(PBT+PET)—GF30

30% Glass Reinforced, Heat Stabilized, UV Stabilized, Excellent Surface Properties

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Molding shrinkage [normal]	1.1	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.32	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	9900	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	2.4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45	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		
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	225	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	4.1	—	IEC 62631-2-1
Relative permittivity (1 MHz)	3.9	—	IEC 62631-2-1
Dissipation factor (100 Hz)	15	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	160	E-4	IEC 62631-2-1

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	275	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A
OTHER PROPERTIES	VALUE		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1530	kg/m³	ISO 1183

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