Property Data

Arnite® B434 SE

PBT−GF20 FR(17)

20% Glass Reinforced, Flame Retardant

Print Date: 2024−03−27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	8000	MPa	ISO 527−1/−2
Stress at break	105	MPa	ISO 527−1/−2
Strain at break	2.4	%	ISO 527−1/−2
Charpy impact strength (+23°C)	40	kJ/m²	ISO 179/1eU
Charpy impact strength (−30°C)	40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6	kJ/m²	ISO 179/1eA
Charpy notched impact strength (−30°C)	6	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357−1/−3
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75−1/−2
Temp. of deflection under load (0.45 MPa)	220	°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)	0.8	E−4/°C	ISO 11359−1/−2
Burning Behav. at 1.5 mm nom. thickn.	V−0	class	IEC 60695−11−10
Thickness tested	1.5	mm	IEC 60695−11−10
ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.9	−	IEC 62631−2−1
Relative permittivity (1 MHz)	3.7	−	IEC 62631−2−1
Dissipation factor (100 Hz)	20	E−4	IEC 62631−2−1
Dissipation factor (1 MHz)	150	E−4	IEC 62631−2−1
Volume resistivity	>1E13	Ohm*m	IEC 62631−3−1

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Electric strength	27	kV/mm	IEC 60243-1
Comparative tracking index	250	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1590	kg/m³	ISO 1183