Property Data



Print Date: 2024-03-27

Arnite[®] B436 SE

PBT-GF30 FR(17)

30% Glass Reinforced, Flame Retardant

PROPERTIES TYPICAL DATA UNIT TEST META MECHANICAL PROPERTIES VALUE Image: Stress at break 10500 MPa ISO 527-1 Stress at break 105 MPa ISO 527-1 Iso 527-1 Stress at break 105 MPa ISO 527-1 Stress at break 105 MPa ISO 527-1 Charpy impact strength (+23°C) 45 KJ/m² ISO 179/1 Charpy impact strength (-30°C) 45 KJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 KJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 KJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 KJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 KJ/m² ISO 179/1 THERMAL PROPERTIES VALUE Meting temperature (10°C/min) 225 °C ISO 11357 Temp. of deflection under load (0.45 MPa) 220 °C ISO 11359 Coeff. of linear therm. expansion (parallel) 0.35 E-4/°C ISO 11359	
Tensile modulus 10500 MPa ISO 527-1 Stress at break 105 MPa ISO 527-1 Strain at break 1.7 % ISO 527-1 Charpy impact strength (+23°C) 45 kJ/m² ISO 179/1 Charpy impact strength (-30°C) 45 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 179/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 175/1 Charpy notched impact strength (-30°C) 6 kJ/m² ISO 11357 Temp. of deflection under load (1.80 MPa) 210 °C ISO 11359 Coeff. of linear therm. expansion (parallel) 0.35 E-4/°C ISO 11359 Glow Wire Flammability Index GWFI <	100
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Relative permittivity (100Hz) 4.1 – IEC 62631	5-2-12
Relative permittivity (100Hz) 4.1 – IEC 62631	
Relative permittivity (1 MHz)3.9-IEC 62631	2-1
	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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Electric strength	28	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	1670	kg∕m³	ISO 1183

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