Badadur® PBT9 GF30 TM-Z1

PBT-GF30 Bada AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**5**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7800**	MPa	ISO 527
Stress at break	**90**	MPa	ISO 527
Strain at break	**3.5**	%	ISO 527
Charpy impact strength, +23°C	**65**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**55**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**12**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**223**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**205**	°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	**35**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**95**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**4.1**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**200**	E-4	IEC 62631-2-1
Volume resistivity	**1E14**	Ohm*m	IEC 62631-3-1
Surface resistivity	**1E14**	Ohm	IEC 62631-3-2
Electric strength	**29**	kV/mm	IEC 60243-1
Comparative tracking index	**450**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**0.34**	%	Sim. to ISO 62
Humidity absorption	**0.1**	%	Sim. to ISO 62
Density	**1510**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.04**	%	-
Melt temperature	**250 - 275**	°C	-
Mold temperature	**60 - 100**	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa