Property Data

Envalior
Imagine the Future

Pocan® B5221XF

PBT-GB20

20% Glass Beads Reinforced, Injection Molding, Electrical Conductive, High Flow, Excellent Surface Properties

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	45	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.8	%	ISO 294-4
Molding shrinkage (parallel)	1.8	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2800	MPa	ISO 527-1/-2
Stress at break	40	MPa	ISO 527-1/-2
Strain at break	20	%	ISO 527-1/-2
Flexural modulus	2800	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Flexural strain at flexural strength	5.5	%	ISO 178-A
Charpy impact strength (+23°C)	50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	40	kJ/m²	ISO 180/1U
Izod impact strength (-30°C)	30	kJ/m²	ISO 180-1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	222	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	70	°C	ISO 75-1/-2

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Temp. of deflection under load (0.45 MPa)	165	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.1	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-1/-2

ELECTRICAL PROPERTIES	VALUE		
Surface resistivity	7E10	Ohm	IEC 62631-3-2
Comparative tracking index	200	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1410	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature circulating air dryer	120	°C
Drying time circulating air dryer	4-8	h
Melt temperature (Tmin - Tmax)	250-270	°C
Mold temperature	80-100	°C

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