

Pocan[®] ECOB3225

PBT–GF20

20% Glass Reinforced, Injection Molding, Recycled Content

Sustainability

Mass balanced
Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume–flow rate	20	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.4	%	ISO 294–4
Molding shrinkage (parallel)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES		VALUE	
Tensile modulus	7100	MPa	ISO 527–1/–2
Stress at break	120	MPa	ISO 527–1/–2
Strain at break	3.4	%	ISO 527–1/–2
Flexural modulus	7000	MPa	ISO 178
Flexural strength	195	MPa	ISO 178
Flexural strain at flexural strength	4	%	ISO 178–A
Charpy impact strength (+23°C)	50	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	45	kJ/m ²	ISO 179/1eU
Izod impact strength (+23°C)	45	kJ/m ²	ISO 180/1U
Izod impact strength (–30°C)	40	kJ/m ²	ISO 180–1U

THERMAL PROPERTIES

VALUE

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Melting temperature (10°C/min)	225	°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)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	20	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	650	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.8	—	IEC 62631-2-1
Relative permittivity (1 MHz)	3.6	—	IEC 62631-2-1
Dissipation factor (100 Hz)	15	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	200	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	325	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

OTHER PROPERTIES	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Density	1460	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4–8	h	
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	250–270	°C	
Mold temperature	80–100	°C	

Viscosity–shear rate

