

# Pocan<sup>®</sup> B3235 POS151

## PBT–GF30

30% Glass Reinforced, Injection Molding, UV Stabilized

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume–flow rate	17	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.1	%	ISO 294–4
Molding shrinkage (parallel)	0.4	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	9800	MPa	ISO 527–1/–2
Stress at break	140	MPa	ISO 527–1/–2
Strain at break	2.9	%	ISO 527–1/–2
Flexural modulus	9800	MPa	ISO 178
Flexural strength	225	MPa	ISO 178
Flexural strain at flexural strength	3.4	%	ISO 178–A
Charpy impact strength (+23°C)	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength (–30°C)	55	kJ/m <sup>2</sup>	ISO 180–1U
<b>THERMAL PROPERTIES</b>			
	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

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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
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)	4	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.8	–	IEC 62631-2-1
Electric strength	29	kV/mm	IEC 60243-1

### OTHER PROPERTIES

#### VALUE

Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1550	kg/m <sup>3</sup>	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	

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