

# Pocan<sup>®</sup> ECOB3233XHR

## PBT–GF30

30% Glass Reinforced, Injection Molding, Hydrolysis resistant, Improved flow, Recycled Content

Print Date: 2024–12–10

### Sustainability

Mass balanced  
 Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		<b>VALUE</b>	
Melt volume–flow rate	18	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>		<b>VALUE</b>	
Tensile modulus	8500	MPa	ISO 527–1/–2
Stress at break	120	MPa	ISO 527–1/–2
Strain at break	3.6	%	ISO 527–1/–2
Flexural modulus	7600	MPa	ISO 178
Flexural strength	175	MPa	ISO 178
Flexural strain at flexural strength	3.8	%	ISO 178–A
Charpy impact strength (+23°C)	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	7.2	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m <sup>2</sup>	ISO 180/1U

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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200	°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)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.5	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
Glow Wire Flammability Index GWFI	725	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	725	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	3	mm	IEC 60695-2-13
<b>ELECTRICAL PROPERTIES</b>			
	<b>VALUE</b>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	34	kV/mm	IEC 60243-1
Comparative tracking index	475	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>OTHER PROPERTIES</b>			
Density	1480	kg/m <sup>3</sup>	ISO 1183
<b>PROCESSING RECOMMENDATIONS</b>			
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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