

# Pocan<sup>®</sup> B3216XHR

## PBT–GF16

16% Glass Reinforced, Injection Molding, Hydrolysis resistant, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume–flow rate	35	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	1	%	ISO 294–4
Molding shrinkage (parallel)	0.8	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>VALUE</b>		
Tensile modulus	4500	MPa	ISO 527–1/–2
Stress at break	80	MPa	ISO 527–1/–2
Strain at break	4.7	%	ISO 527–1/–2
Flexural modulus	4100	MPa	ISO 178
Flexural strength	125	MPa	ISO 178
Flexural strain at flexural strength	5.4	%	ISO 178–A
Charpy impact strength (+23°C)	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	45	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	7	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength (+23°C)	50	kJ/m <sup>2</sup>	ISO 180/1U
<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)	190	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (parallel)	0.4	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3	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

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index	550	V	IEC 60112

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1350	kg/m <sup>3</sup>	ISO 1183

<i>PROCESSING RECOMMENDATIONS</i>	<i>VALUE</i>		
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	