

# Pocan B3216HR 000000

PBT, 16% glass fibers, injection molding, improved impact strength, hydrolysis stabilized

ISO Shortname: ISO 20028-PBT,GF16,GHMRW,09-050

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	24
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.6
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.0
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Mechanical properties (23 °C/50 % r. h.)	,	'		
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5900
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	100
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.7
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	50
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	35
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	<10
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	<10
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	45
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	30
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	<10
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5600
Flexural strength	2 mm/min	MPa	ISO 178-A	165
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.4
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	160
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	225
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	190
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	220
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	200
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.4
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	1.3
C Burning behavior UL 94	1.5 mm	Class	UL 94	НВ
C Burning behavior UL 94	0.75 mm	Class	UL 94	НВ
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-2-12	750
Glow wire test (GWFI)	1.0 mm	°C	IEC 60695-2-12	750
Glow wire test (GWFI)	1.5 mm	°C	IEC 60695-2-12	700
Glow wire test (GWFI)	3.0 mm	°C	IEC 60695-2-12	750
Glow wire test (GWIT)	0.75 mm	°C	IEC 60695-2-13	775
Glow wire test (GWIT)	1.0 mm	°C	IEC 60695-2-13	775
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	750
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	775







# Pocan B3216HR 000000

Test Condition	Unit	Standard	guide value <sup>1</sup>
	Ohm-m	IEC 62631-3	>1E13
	Ohm	IEC 62631-3	>1E15
1 mm	kV/mm	IEC 60243-1	36
Solution A	Rating	IEC 60112	300
	kg/m³	ISO 1183	1400
	kg/m³	ISO 60	700
	°C	ISO 294	260
	°C	ISO 294	80
	°C	=	120
	h	-	4-8
	%	Acc. to Karl Fischer	0.00-0.02
	°C	-	250-270
	°C	-	80-100
	1 mm	Ohm-m Ohm 1 mm kV/mm Solution A Rating  kg/m³ kg/m³  °C °C  h % °C	Ohm·m IEC 62631-3 Ohm IEC 62631-3 1 mm kV/mm IEC 60243-1 Solution A Rating IEC 60112  kg/m³ ISO 1183 kg/m³ ISO 60  °C ISO 294 °C ISO 294  °C - h - % Acc. to Karl Fischer °C -

### Notes



**<sup>1</sup>** Typical properties: these are not to be construed as specifications

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

### **DATA SHEET**



## Pocan B3216HR 000000

#### Disclaimer

Disclaimer for commercial products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

© LANXESS Performance Materials GmbH | DE 50569 COLOGNE | Germany



Edition 07.06.2023

