

# Pocan<sup>®</sup> B1205HR

## PBT-I

Injection Molding, Unreinforced, Hydrolysis resistant

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume-flow rate	50	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	2.1	%	ISO 294-4
Molding shrinkage (parallel)	2.1	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>VALUE</b>		
Tensile modulus	2600	MPa	ISO 527-1/-2
Yield stress	55	MPa	ISO 527-1/-2
Yield strain	3.5	%	ISO 527-1/-2
Flexural modulus	2600	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	5.6	%	ISO 178-A
Charpy impact strength (+23°C)	150	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	4	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength (+23°C)	120	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength (-30°C)	65	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)	75	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	140	°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>
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

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Comparative tracking index	600	V	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1290	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	