

# Pocan<sup>®</sup> B500

## PBT

Extrusion, Unreinforced, Food Contact Quality, Improved flow

Print Date: 2024-09-17

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Melt volume-flow rate	280	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.8	%	ISO 294-4
Molding shrinkage (parallel)	1.8	%	ISO 294-4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Tensile modulus	2700	MPa	ISO 527-1/-2
Flexural modulus	2700	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Flexural strain at flexural strength	5.5	%	ISO 178-A
Izod impact strength (+23°C)	35	kJ/m <sup>2</sup>	ISO 180/1U
<b><i>THERMAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	85	°C	ISO 75-1/-2
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Density	1300	kg/m <sup>3</sup>	ISO 1183
<b><i>PROCESSING RECOMMENDATIONS</i></b>			
	<b><i>VALUE</i></b>		
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4-8	h	

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Melt temperature (Tmin – Tmax)	250–270	°C	
Mold temperature	80–100	°C	

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