

Pocan[®] B1503

PBT

Injection Molding, Unreinforced, Extrusion, General purpose

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	18	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	2600	MPa	ISO 527-1/-2
Yield stress	55	MPa	ISO 527-1/-2
Yield strain	8	%	ISO 527-1/-2
Flexural modulus	2650	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Flexural strain at flexural strength	6	%	ISO 178-A
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	180	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	N	kJ/m ²	ISO 180/1U
Izod impact strength (-30°C)	150	kJ/m ²	ISO 180-1U
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.2	E-4/°C	ISO 11359-1/-2

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-1/-2

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1300	kg/m ³	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	

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