

Pocan[®] B3216HRLT

PBT-GF15

15% Glass Reinforced, Injection Molding, Hydrolysis resistant, Laser Weldable, Laser Transparent Black

Print Date: 2024-10-01

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	25	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.6	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	6100	MPa	ISO 527-1/-2
Stress at break	105	MPa	ISO 527-1/-2
Strain at break	2.9	%	ISO 527-1/-2
Flexural modulus	5800	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Flexural strain at flexural strength	3.6	%	ISO 178-A
Charpy impact strength (+23°C)	25	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	25	kJ/m ²	ISO 179/1eU
Izod impact strength (+23°C)	22	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)	170	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.1	E-4/°C	ISO 11359-1/-2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>ELECTRICAL PROPERTIES</i>			
Comparative tracking index	250	V	IEC 60112
<i>OTHER PROPERTIES</i>			
Density	1390	kg/m ³	ISO 1183
<i>PROCESSING RECOMMENDATIONS</i>			
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4-8	h	
Melt temperature (Tmin – Tmax)	260-280	°C	
Mold temperature	60-80	°C	

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