

Pocan[®] TS3220

(PBT+PET)—I—GF20

20% Glass Reinforced, Injection Molding, Improved Impact, Excellent Surface Properties, Low Warpage

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume-flow rate	18	cm ³ /10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.7	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	5500	MPa	ISO 527-1/-2
Stress at break	75	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Flexural modulus	5200	MPa	ISO 178
Flexural strength	120	MPa	ISO 178
Flexural strain at flexural strength	3.9	%	ISO 178-A
Charpy impact strength (+23°C)	50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6.7	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	40	kJ/m ²	ISO 180/1U
Izod impact strength (-30°C)	40	kJ/m ²	ISO 180-1U
THERMAL PROPERTIES	VALUE		
Temp. of deflection under load (1.80 MPa)	155	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75-1/-2

Property Data

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Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Comparative tracking index	200	V	IEC 60112
OTHER PROPERTIES			
Density	1380	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS			
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)	260-280	°C	
Mold temperature	80-100	°C	

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Viscosity–shear rate

