

Pocan[®] TS3221

(PBT+PET)–I–GF20

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

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	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	3.3	%	ISO 527–1/–2
Flexural modulus	5100	MPa	ISO 178
Flexural strength	120	MPa	ISO 178
Flexural strain at flexural strength	3.8	%	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)	<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)	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)	140	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	205	°C	ISO 75–1/–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>
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
<i>ELECTRICAL PROPERTIES</i>			
	<i>VALUE</i>		
Comparative tracking index	250	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>VALUE</i>		
Density	1390	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)	260-280	°C	
Mold temperature	80-100	°C	

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