

Pocan[®] T7391

(PBT+PET)—GF45

45% Glass Reinforced, Injection Molding, Excellent Surface Properties

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume—flow rate	30	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.8	%	ISO 294-4
Molding shrinkage (parallel)	0.2	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	16000	MPa	ISO 527-1/-2
Stress at break	160	MPa	ISO 527-1/-2
Strain at break	1.9	%	ISO 527-1/-2
Flexural modulus	15500	MPa	ISO 178
Flexural strength	260	MPa	ISO 178
Flexural strain at flexural strength	2.1	%	ISO 178-A
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8.3	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m ²	ISO 180/1U
Izod impact strength (-30°C)	60	kJ/m ²	ISO 180-1U
THERMAL PROPERTIES			
	VALUE		
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	225	°C	ISO 75-1/-2

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	21	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	750	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	4.3	—	IEC 62631-2-1
Relative permittivity (1 MHz)	4.2	—	IEC 62631-2-1
Dissipation factor (100 Hz)	20	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	140	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	28	kV/mm	IEC 60243-1
Comparative tracking index	275	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1690	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature circulating air dryer	120	°C	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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	

Viscosity–shear rate

