Pocan® A3131

(PBT+PET+ASA)−GF30

30% Glass Reinforced, Injection Molding, Excellent Surface Properties, Low Warpage

Print Date: 2024−12−10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume−flow rate	40	cm³/10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.8	%	ISO 294−4
Molding shrinkage (parallel)	0.3	%	ISO 294−4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	9800	MPa	ISO 527−1/−2
Stress at break	135	MPa	ISO 527−1/−2
Strain at break	2.4	%	ISO 527−1/−2
Flexural modulus	9700	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Flexural strain at flexural strength	2.7	%	ISO 178−A
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (−30°C)	55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7.8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (−30°C)	6.9	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	50	kJ/m²	ISO 180/1U
Izod impact strength (−30°C)	50	kJ/m²	ISO 180−1U
THERMAL PROPERTIES	VALUE		
Temp. of deflection under load (1.80 MPa)	185	°C	ISO 75−1/−2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75−1/−2

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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)	1	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

ELECTRICAL PROPERTIES

	VALUE		
Comparative tracking index	325	V	IEC 60112

OTHER PROPERTIES

	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1500	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS

	VALUE		
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

Viscosity-shear rate
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- 260 °C
- 270 °C
- 280 °C

Viscosity in Pa s

Shear rate in 1/s

SMV11I