

Pocan[®] KL1-7033

PBT-I-GF30

30% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	13	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	8000	MPa	ISO 527-1/-2
Stress at break	95	MPa	ISO 527-1/-2
Strain at break	4	%	ISO 527-1/-2
Flexural strain at flexural strength	3.8	%	ISO 178-A
Charpy impact strength (+23°C)	65	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10	kJ/m ²	ISO 179/1eA
Izod impact strength (-30°C)	55	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)	195	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	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>
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	650	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	2	mm	IEC 60695–2–12

ELECTRICAL PROPERTIES

VALUE

Relative permittivity (100Hz)	4.6	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.9	–	IEC 62631–2–1
Dissipation factor (100 Hz)	60	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	260	E–4	IEC 62631–2–1
Surface resistivity	>1E15	Ohm	IEC 62631–3–2
Electric strength	28	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112

OTHER PROPERTIES

VALUE

Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1460	kg/m ³	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)	250–270	°C	
Mold temperature	80–100	°C	

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Viscosity-shear rate

