

Pocan[®] KL1-7265

PBT-GF15

15% Glass Reinforced, Injection Molding, General purpose

Print Date: 2024-10-15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	25	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.2	%	ISO 294-4
Molding shrinkage (parallel)	0.7	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	6000	MPa	ISO 527-1/-2
Stress at break	105	MPa	ISO 527-1/-2
Strain at break	3.5	%	ISO 527-1/-2
Flexural strain at flexural strength	4.2	%	ISO 178-A
Charpy impact strength (+23°C)	30	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30	kJ/m ²	ISO 179/1eU
Izod impact strength (-30°C)	25	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)	0.4	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10

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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 3.0 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10
Oxygen index	20	%	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

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Relative permittivity (100Hz)	3.6	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	30	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	200	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	25	kV/mm	IEC 60243–1
Comparative tracking index	300	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1420	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)	250–270	°C	
Mold temperature	80–100	°C	

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Viscosity-shear rate

