Property Data

Envalior
Imagine the Future

Pocan® B3233HRE 000000

PBT-GF30

Injection Molding, 30% Glass Fiber Reinforced, Hydrolysis Stabilized, High Flow, CTI 600

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	15	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	9700	MPa	ISO 527-1/-2
Stress at break	120	MPa	ISO 527-1/-2
Strain at break	2.6	%	ISO 527-1/-2
Flexural modulus	9200	MPa	ISO 178
Flexural strength	190	MPa	ISO 178
Flexural strain at flexural strength	2.9	%	ISO 178-A
Charpy impact strength (+23°C)	60	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	50	kJ/m²	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)	202	°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)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3	E-4/°C	ISO 11359-1/-2

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ELECTRICAL PROPERTIES	**VALUE**		
Comparative tracking index	600	V	IEC 60112
OTHER PROPERTIES	**VALUE**		
Density	1530	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)	250–270	°C	
Mold temperature	80–100	°C	

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