Property Data

Envalior
Imagine the Future

Pocan® B3216XHRE 000000

PBT-GF16

Injection Molding, 16% Glass Fiber Reinforced, Hydrolysis Stabilized, Impact Modified, CTI 600

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	35	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.9	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	4600	MPa	ISO 527-1/-2
Stress at break	80	MPa	ISO 527-1/-2
Strain at break	4.6	%	ISO 527-1/-2
Flexural modulus	4100	MPa	ISO 178
Flexural strength	130	MPa	ISO 178
Flexural strain at flexural strength	5.4	%	ISO 178-A
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	50	kJ/m²	ISO 180/1U
Izod impact strength (-30°C)	45	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)	192	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	218	°C	ISO 75-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (parallel)	0.4	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.3	E–4/°C	ISO 11359–1/–2

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	600	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1350	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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