Property Data

Envalior
Imagine the Future

Pocan® B3223HRLT

PBT–GF20

20% Glass Reinforced, Injection Molding, Hydrolysis resistant, Laser Weldable, Laser Transparent Black

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (normal)	0.9	%	ISO 294–4
Molding shrinkage (parallel)	0.4	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	7400	MPa	ISO 527–1/–2
Stress at break	120	MPa	ISO 527–1/–2
Strain at break	2.7	%	ISO 527–1/–2
Flexural modulus	7000	MPa	ISO 178
Flexural strength	190	MPa	ISO 178
Flexural strain at flexural strength	3.2	%	ISO 178–A
Izod impact strength (+23°C)	30	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)	175	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75–1/–2
OTHER PROPERTIES	**VALUE**		
Density	1430	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS	**VALUE**		
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4–8	h	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260–280	°C	
Mold temperature	60–80	°C	

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