Property Data

Envalior
Imagine the Future

Pocan® B1201 S042

Pocan® KU2-7003 POS042

PBT

Injection Molding, Unreinforced, Excellent Surface Properties

Print Date: 2026-04-09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate (MVR)	60	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.7	%	ISO 294-4
Molding shrinkage (parallel)	1.7	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2800	MPa	ISO 527-1/-2
Yield stress	55	MPa	ISO 527-1/-2
Yield strain	8	%	ISO 527-1/-2
Flexural strain at flexural strength	6	%	ISO 178-A
Charpy impact strength (+23°C)	200	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	100	kJ/m²	ISO 179/1eU
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES	**VALUE**		
Water absorption	0.5	%	Sim. to ISO 62

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1300	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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