Property Data

Envalior
Imagine the Future

Pocan® S1500

Pocan® KU2–7018 S1

PBT–I

Injection Molding, Unreinforced, Extrusion, Excellent Surface Properties, Impact Modified

Print Date: 2026–04–09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	37	cm³/10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	2	%	ISO 294–4
Molding shrinkage (parallel)	2	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	1750	MPa	ISO 527–1/–2
Yield stress	40	MPa	ISO 527–1/–2
Yield strain	4.5	%	ISO 527–1/–2
Nominal strain at break	>50	%	ISO 527–1/–2
Flexural strain at flexural strength	6	%	ISO 178–A
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	65	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	18	kJ/m²	ISO 179/1eA
Izod impact strength (–30°C)	N	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)	50	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	90	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1.3	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	1.3	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	600	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1220	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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