Property Data

Envalior
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Pocan® S7020 S1

PBT–I FR(17)

Injection Molding, Unreinforced, Flame Retardant, Impact Modified

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	50	cm³/10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	1.8	%	ISO 294–4
Molding shrinkage (parallel)	1.8	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2300	MPa	ISO 527–1/–2
Yield stress	45	MPa	ISO 527–1/–2
Yield strain	4.5	%	ISO 527–1/–2
Flexural modulus	2300	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Flexural strain at flexural strength	5.3	%	ISO 178–A
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	105	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	N	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	65	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)	65	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	125	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1.1	E–4/°C	ISO 11359–1/–2

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Coeff. of linear therm. expansion (normal)	1.1	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	V–2	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10
Oxygen index	30	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695–2–12

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.8	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.6	–	IEC 62631–2–1
Dissipation factor (100 Hz)	40	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	240	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Surface resistivity	>1E15	Ohm	IEC 62631–3–2
Electric strength	23	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A

OTHER PROPERTIES	VALUE		
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1380	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature circulating air dryer	120	°C

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Drying time circulating air dryer	4–8	h	
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	240–260	°C	
Mold temperature	80–100	°C	

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