Property Data

Envalior
Imagine the Future

Pocan® BFN4232ZHR S1

PBT-I-GF25 FR(40)

25% Glass Fiber Reinforced, Injection Molding, Halogen free, Hydrolysis Stabilized, Impact Modified

Print Date: 2026-05-07

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.5	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	7900	MPa	ISO 527-1/-2
Stress at break	90	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Flexural modulus	8100	MPa	ISO 178
Flexural strength	145	MPa	ISO 178
Flexural strain at flexural strength	2.8	%	ISO 178-A
Charpy impact strength (+23°C)	40	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6.7	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6.4	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	40	kJ/m²	ISO 180/1U
Izod impact strength (-30°C)	45	kJ/m²	ISO 180-1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210	°C	ISO 75-1/-2

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Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.4 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	0.4	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	V-0	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
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.4	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	0.75	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.4	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695-2-13
GWIT (Thickness (4) tested)	3	mm	IEC 60695-2-13

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.9	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.7	-	IEC 62631-2-1
Dissipation factor (100 Hz)	70	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	165	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

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Surface resistivity	>1E15	Ohm	IEC 62631–3–2
Electric strength	31	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A
Proof tracking index PTI (PTI A)	600	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1490	kg/m³	ISO 1183

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