

# Pocan<sup>®</sup> BFN4232HR

## PBT—GF25 FR(40)

25% Glass Fiber Reinforced, Injection Molding, Flame Retardant (halogen free),  
Hydrolysis Stabilized

Print Date: 2025-12-02

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		VALUE	
Melt volume—flow rate	30	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	1	%	ISO 294-4
Molding shrinkage (parallel)	0.5	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>		VALUE	
Tensile modulus	9000	MPa	ISO 527-1/-2
Stress at break	95	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Flexural modulus	9100	MPa	ISO 178
Flexural strength	155	MPa	ISO 178
Flexural strain at flexural strength	2.4	%	ISO 178-A
Charpy impact strength (+23°C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	25	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>		VALUE	
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	1.1	E-4/°C	ISO 11359-1/-2
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)	0.75	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	3	mm	IEC 60695-2-13

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1500	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE
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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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)	250-265	°C	
Mold temperature	70-90	°C	
admissible residence time at Tmax	<5	min	

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