

Pocan[®] BF4232HR

PBT–GF30 FR(17)

30% Glass Reinforced, Injection Molding, Flame Retardant, Hydrolysis resistant

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume–flow rate	16	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.1	%	ISO 294–4
Molding shrinkage (parallel)	0.4	%	ISO 294–4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	9800	MPa	ISO 527–1/–2
Stress at break	120	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Flexural modulus	10000	MPa	ISO 178
Flexural strength	185	MPa	ISO 178
Flexural strain at flexural strength	2.3	%	ISO 178–A
Charpy impact strength (+23°C)	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	35	kJ/m ²	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)	195	°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)	0.3	E–4/°C	ISO 11359–1/–2

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	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
Oxygen index	36.4	%	ISO 4589-1/-2
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	900	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.4	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	850	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695-2-13
GWIT (Thickness (4) tested)	3	mm	IEC 60695-2-13

ELECTRICAL PROPERTIES	VALUE		
Electric strength	29.8	kV/mm	IEC 60243-1
Comparative tracking index	225	V	IEC 60112
Comparative tracking index (PLC)	3	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1670	kg/m³	ISO 1183

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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)	240–260	°C	
Mold temperature	80–100	°C	

Viscosity–shear rate

