

# Pocan<sup>®</sup> BFN6410

## PBT–MD17 FR(40)

Injection Molding, 17% White Pigments, Flame Retardant (halogen free), Low Warpage

Print Date: 2024–12–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Molding shrinkage (normal)	2	%	ISO 294–4
Molding shrinkage (parallel)	2.2	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	4150	MPa	ISO 527–1/–2
Stress at break	40	MPa	ISO 527–1/–2
Strain at break	1.8	%	ISO 527–1/–2
Flexural modulus	4200	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Flexural strain at flexural strength	2.3	%	ISO 178–A
Charpy impact strength (+23°C)	17	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	17	kJ/m <sup>2</sup>	ISO 179/1eU
Izod impact strength (+23°C)	15	kJ/m <sup>2</sup>	ISO 180/1U
<b>THERMAL PROPERTIES</b>			
	VALUE		
Melting temperature (10°C/min)	220	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	100	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	180	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.8	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.9	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

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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	41	%	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

### *ELECTRICAL PROPERTIES*

#### *VALUE*

Electric strength	28	kV/mm	IEC 60243-1
Comparative tracking index	400	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

### *OTHER PROPERTIES*

#### *VALUE*

Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1520	kg/m <sup>3</sup>	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)	250-265	°C	
Mold temperature	70-90	°C	
admissible residence time at Tmax	<5	min	

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