Property Data

Envalior
Imagine the Future

Pocan® BFN6410

PBT-MD17 FR(40)

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

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (normal)	2	%	ISO 294-4
Molding shrinkage (parallel)	2.2	%	ISO 294-4
MECHANICAL PROPERTIES	**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/m²	ISO 179/1eU
Charpy impact strength (-30°C)	17	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	15	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)	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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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/m³	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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