Property Data

Envalior
Imagine the Future

Pocan® BF4212

PBT–GF15 FR(17)

15% Glass Fiber Reinforced

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	14	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.1	%	ISO 294–4
Molding shrinkage (parallel)	0.7	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	7000	MPa	ISO 527–1/–2
Stress at break	110	MPa	ISO 527–1/–2
Strain at break	2.6	%	ISO 527–1/–2
Flexural modulus	6200	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Flexural strain at flexural strength	3.4	%	ISO 178–A
Izod impact strength (+23°C)	25	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	25	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	222	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	190	°C	ISO 75–1/–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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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	850	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	725	°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	29	kV/mm	IEC 60243–1
Comparative tracking index (PLC)	3	class	UL 746A

OTHER PROPERTIES	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1530	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature circulating air dryer	120	°C
Drying time circulating air dryer	4–8	h
Melt temperature (Tmin – Tmax)	240–260	°C
Mold temperature	80–100	°C

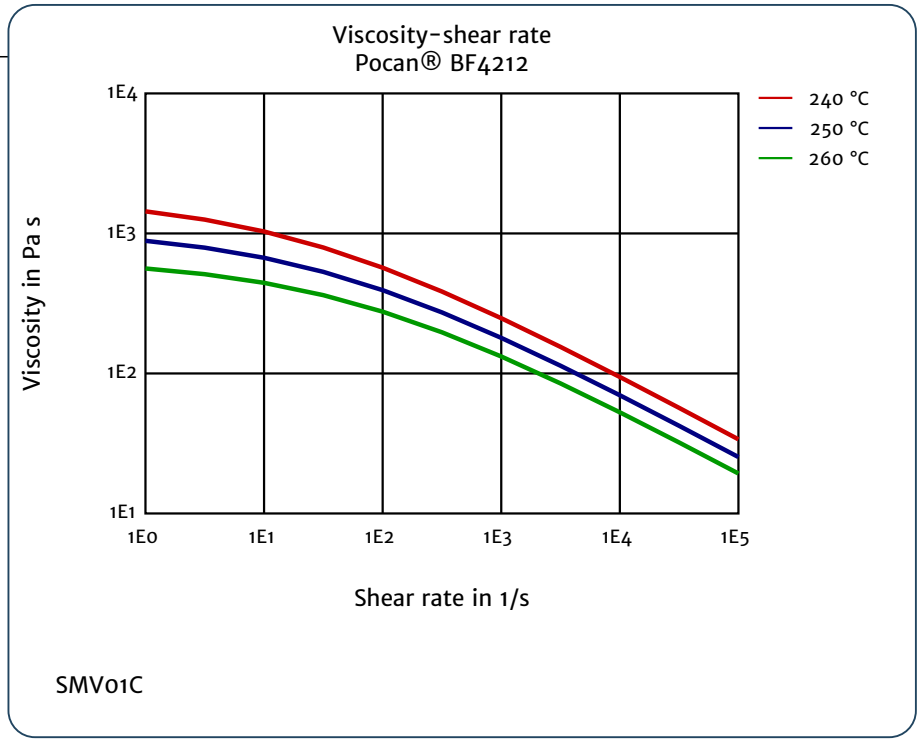
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Viscosity–shear rate



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