Property Data

Envalior
Imagine the Future

Pocan® B3235 S800

Arnite® TV4 261

PBT–GF30

30% Glass Fiber Reinforced

Print Date: 2026–11–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	15	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.1	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.4	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	9750	MPa	ISO 527–1/–2
Stress at break	145	MPa	ISO 527–1/–2
Strain at break	2.8	%	ISO 527–1/–2
Flexural modulus	9400	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Flexural strain at flexural strength	3.4	%	ISO 178–A
Charpy impact strength (+23°C)	60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9.5	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3	E–4/°C	ISO 11359–1/–2

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Coeff. of linear therm. expansion (normal)	0.8	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10
Oxygen index	20	%	ISO 4589–1/–2

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.9	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.7	–	IEC 62631–2–1
Dissipation factor (100 Hz)	25	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	170	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	30	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	0.3	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1530	kg/m³	ISO 1183

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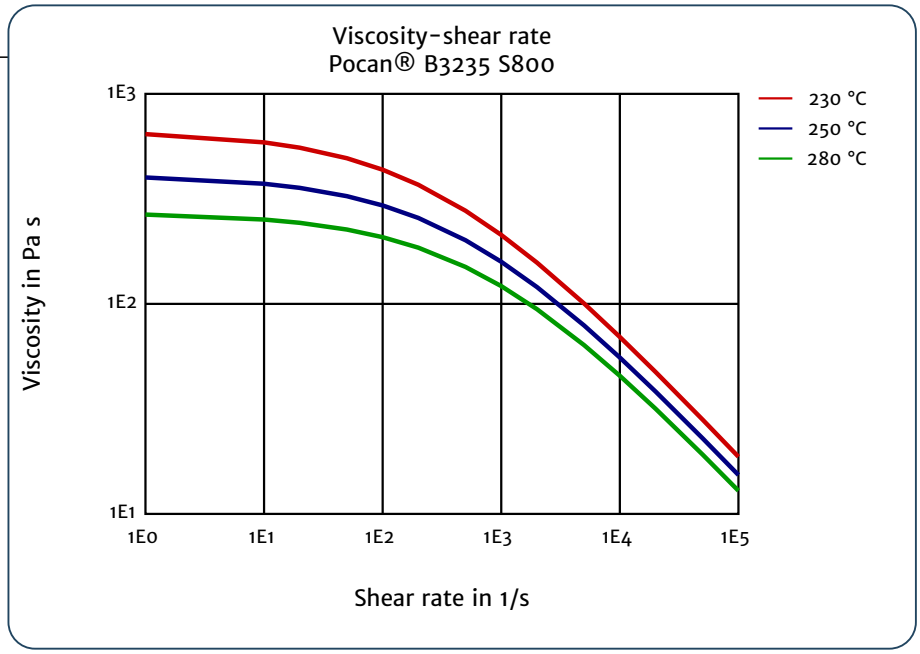
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Viscosity–shear rate



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