Property Data

Envalior
Imagine the Future

Pocan® TFN4235

Pocan® DP4035

(PBT+PET)–GF30 FR(40+30)

30% Glass Fiber Reinforced, Injection Molding, Flame Retardant (halogen free)

Print Date: 2026–04–09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (normal)	1	%	ISO 294–4
Molding shrinkage (parallel)	0.3	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	9000	MPa	ISO 527–1/–2
Stress at break	105	MPa	ISO 527–1/–2
Strain at break	2.4	%	ISO 527–1/–2
Flexural modulus	9200	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Flexural strain at flexural strength	2.8	%	ISO 178–A
Charpy impact strength (+23°C)	40	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	30	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	35	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	30	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Temp. of deflection under load (1.80 MPa)	195	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2
Burning Behav. at 0.4 mm nom. thickn.	V–2	class	IEC 60695–11–10
Thickness tested	0.4	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–2	class	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	V–2	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10
Oxygen index	24	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	900	°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	775	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	775	°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	33	kV/mm	IEC 60243–1
Comparative tracking index	475	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	1620	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature circulating air dryer	120	°C

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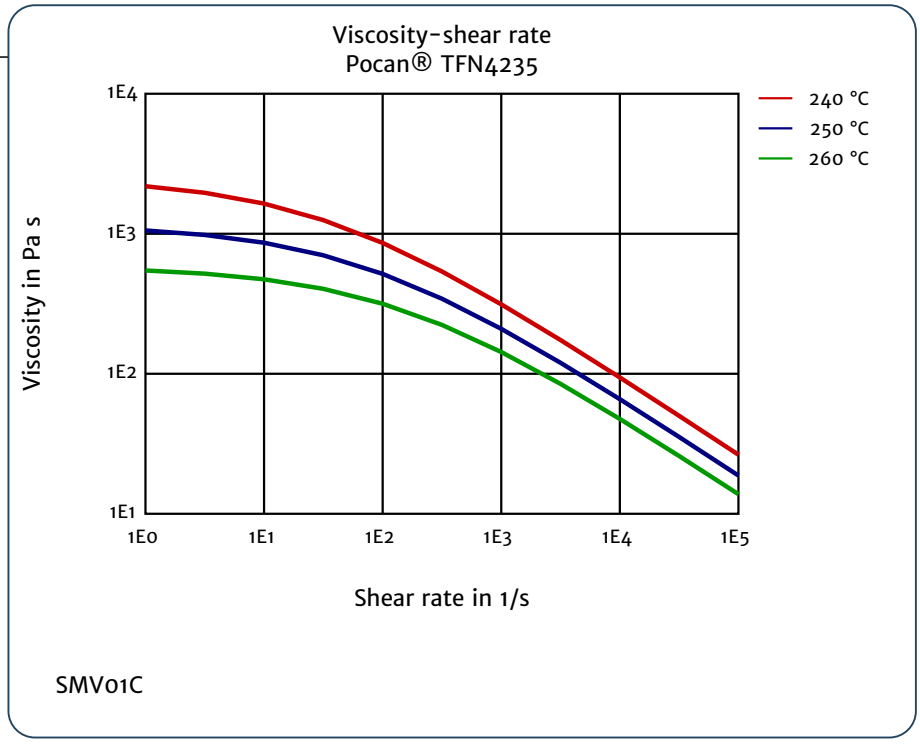
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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Drying time circulating air dryer	4–8	h	
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260–270	°C	
Mold temperature	80–100	°C	

Viscosity–shear rate



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