Property Data

Envalior
Imagine the Future

Pocan® TF4237S1

(PBT+PET)–GF30 FR(17)

30% Glass Fiber Reinforced, Injection Molding, Flame Retardant, Excellent Surface Properties

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	9	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	0.9	%	ISO 294–4
Molding shrinkage (parallel)	0.3	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	11000	MPa	ISO 527–1/–2
Stress at break	140	MPa	ISO 527–1/–2
Strain at break	2.2	%	ISO 527–1/–2
Flexural modulus	10700	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Flexural strain at flexural strength	2.5	%	ISO 178–A
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	50	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	50	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	50	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Temp. of deflection under load (1.80 MPa)	200	°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)	0.2	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
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	29.7	%	ISO 4589-1/-2
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)	1.6	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	800	°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	750	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	3	mm	IEC 60695-2-13

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Surface resistivity	1E17	Ohm	IEC 62631-3-2
Electric strength	34	kV/mm	IEC 60243-1
Comparative tracking index	200	V	IEC 60112
Comparative tracking index (PLC)	3	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1660	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4–8	h	
Melt temperature (Tmin – Tmax)	260–270	°C	
Mold temperature	80–100	°C	
admissible residence time at Tmax	<5	min	

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