Property Data

Envalior
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Pocan® T7141

(PET+PBT)–(GF+MX)40

40% Glass/Mineral Reinforced, Injection Molding, Improved flow

Print Date: 2024–12–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	25	cm³/10min	ISO 1133
Temperature	280	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	0.7	%	ISO 294–4
Molding shrinkage (parallel)	0.2	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	12000	MPa	ISO 527–1/–2
Stress at break	125	MPa	ISO 527–1/–2
Strain at break	1.6	%	ISO 527–1/–2
Flexural modulus	11000	MPa	ISO 178
Flexural strength	175	MPa	ISO 178
Flexural strain at flexural strength	2	%	ISO 178–A
Izod impact strength (+23°C)	35	kJ/m²	ISO 180/1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	260	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250	°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)	0.5	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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Glow Wire Flammability Index GWFI	750	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	0.8	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	750	°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)	0.8	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		
Comparative tracking index	225	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1700	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)	260–280	°C	
Mold temperature	80–100	°C	