Property Data

Envalior
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Pocan® B7375

PBT-MX25

Injection Molding, 25% White Pigments, Low Warpage

Print Date: 2024-09-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	37	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.7	%	ISO 294-4
Molding shrinkage (parallel)	1.8	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	3500	MPa	ISO 527-1/-2
Stress at break	55	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Flexural modulus	3400	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Flexural strain at flexural strength	5	%	ISO 178-A
Charpy impact strength (+23°C)	65	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	60	kJ/m²	ISO 180/1U
Izod impact strength (-30°C)	45	kJ/m²	ISO 180-1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75	°C	ISO 75-1/-2

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Temp. of deflection under load (0.45 MPa)	165	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1	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
Glow Wire Flammability Index GWFI	650	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	4.5	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4.2	-	IEC 62631-2-1
Dissipation factor (100 Hz)	30	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	26	kV/mm	IEC 60243-1
Comparative tracking index	450	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1570	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE	
Drying temperature circulating air dryer	120	°C

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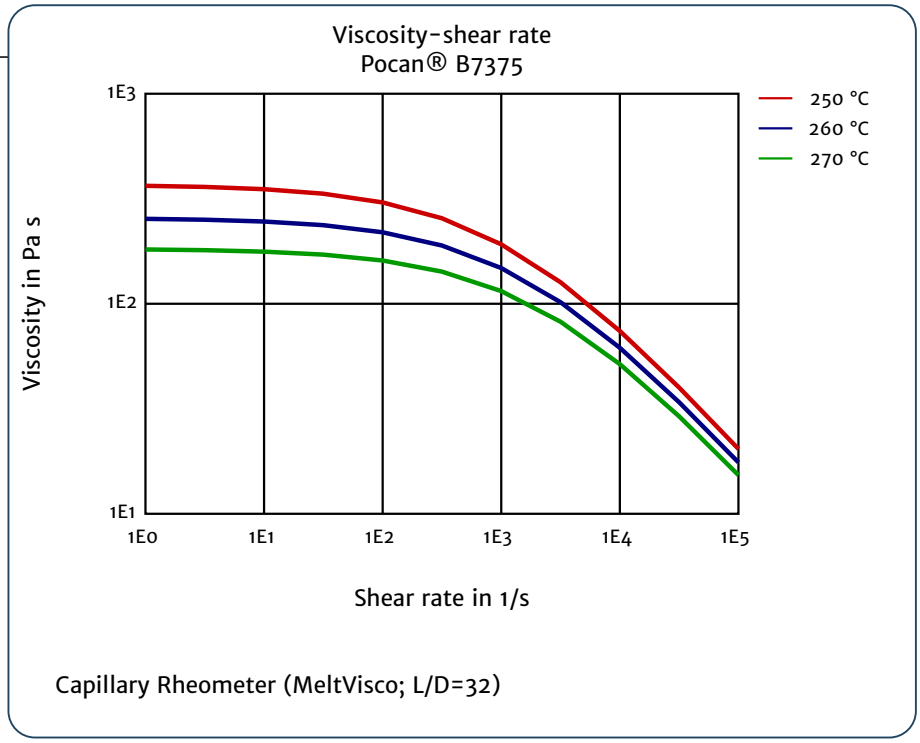
Drying time circulating air dryer	4–8	h	
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	250–270	°C	
Mold temperature	80–100	°C	

Viscosity–shear rate



Capillary Rheometer (MeltVisco; L/D=32)