

POCAN® B 1100 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, non-reinforced, extrusion, injection molding, improved flowability

General Information			
Features	Good liquidity		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	80.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2/1
Flexural Modulus ¹ (23°C)	2750	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% strain, 23°C	75.0	MPa	ISO 178/A
23°C ²	85.0	MPa	ISO 178/A
Flexural Strain at Flexural Strength ³ (23°C)	6.0	%	ISO 178/A
ISO Shortname	PBT, G, 07-030		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	< 10	kJ/m ²	ISO 179/1eA
23°C	< 10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	90	kJ/m ²	ISO 179/1eU
23°C	130	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-40°C	< 10	kJ/m ²	ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
23°C	< 10	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength			ISO 180/1U
-30°C	75	kJ/m ²	ISO 180/1U
23°C	90	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	170	°C	ISO 306/B50
Ball Pressure Test (190°C)	Pass		IEC 60695-10-2
Melting Temperature ⁴	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.3E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.3E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.25	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+15	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.40		IEC 60250
23°C, 1 MHz	3.20		IEC 60250
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.0E-3		IEC 60250
23°C, 1 MHz	0.019		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
Glow Wire Flammability Index	750	°C	IEC 60695-2-12
Oxygen Index ⁵	24	%	ISO 4589-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10°C/min		
5.	Procedure A		

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