

POCAN® B 600 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

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

General Information			
Features	Good liquidity		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	210	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 260°C, 2.00mm ¹	1.6	%	ISO 2577
Vertical flow direction: 150°C, 1 hour, 2.00mm ²	0.30	%	ISO 2577
Flow direction: 260°C, 2.00mm ³	1.6	%	ISO 2577
Flow direction: 150°C, 1 hour, 2.00mm ⁴	0.30	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	55.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	2.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	2.9	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	2800	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% strain, 23°C	85.0	MPa	ISO 178/A
23°C ⁶	100	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	5.6	%	ISO 178/A
ISO Shortname	PBT, G, 05-030		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	74.0	°C	ISO 75-2/A
Vicat Softening Temperature	180	°C	ISO 306/B120
Melting Temperature ⁸	225	°C	ISO 11357-3

Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
NOTE			
1.	60x60x2mm, 80°C MT, 600 bar		
2.	60x60x2mm		
3.	60x60x2mm, 80°C MT, 600 bar		
4.	60x60x2mm		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	2 mm/min		
8.	10°C/min		

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