

# POCAN® B1703 000000

Polybutylene Terephthalate  
LANXESS GmbH

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

PBT, non-reinforced, extrusion, suitable for food-contact

### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe
Features	• Food Contact Acceptable
Processing Method	• Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°F (23°C))	1.31 g/cm <sup>3</sup>	1.31 g/cm <sup>3</sup>	ISO 1183
Apparent (Bulk) Density	0.80 g/cm <sup>3</sup>	0.80 g/cm <sup>3</sup>	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	0.915 in <sup>3</sup> /10min	15.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 248°F (120°C), 0.0787 in (2.00 mm) <sup>2</sup>	0.20 %	0.20 %	
Across Flow : 500°F (260°C), 0.0787 in (2.00 mm) <sup>3</sup>	2.1 %	2.1 %	
Flow : 248°F (120°C), 0.0787 in (2.00 mm) <sup>2</sup>	0.20 %	0.20 %	
Flow : 500°F (260°C), 0.0787 in (2.00 mm) <sup>3</sup>	2.1 %	2.1 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	392000 psi	2700 MPa	ISO 527-2/1
Tensile Stress (Yield, 73°F (23°C))	8700 psi	60.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 73°F (23°C))	10 %	10 %	ISO 527-2/50
Nominal Tensile Strain at Break 73°F (23°C)	16 %	16 %	ISO 527-2/50
Flexural Modulus <sup>4</sup> (73°F (23°C))	363000 psi	2500 MPa	ISO 178/A
Flexural Stress <sup>4</sup>			ISO 178/A
73°F (23°C)	12300 psi	85.0 MPa	
3.5% Strain, 73°F (23°C)	10900 psi	75.0 MPa	
Flexural Strain at Flexural Strength <sup>5</sup> 73°F (23°C)	7.0 %	7.0 %	ISO 178/A

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	< 4.8 ft·lb/in <sup>2</sup>	< 10 kJ/m <sup>2</sup>	
73°F (23°C)	< 4.8 ft·lb/in <sup>2</sup>	< 10 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Notched Izod Impact Strength (73°F (23°C))	< 4.8 ft·lb/in <sup>2</sup>	< 10 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (73°F (23°C))	No Break	No Break	ISO 180/1U

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	140 °F	60.0 °C	
Melting Temperature <sup>6</sup>	437 °F	225 °C	ISO 11357-3

Additional Information	Nominal Value (English)	Nominal Value (SI)
ISO Shortname	ISO 7792-1-PBT, GMR, 13-030	ISO 7792-1-PBT, GMR, 13-030



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Injection	Nominal Value (English)	Nominal Value (SI)	Test Method
Drying Temperature - Circulation Dryer	248 °F	120 °C	
Drying Time - Circulation Dryer	4.0 to 8.0 hr	4.0 to 8.0 hr	
Residual Moisture Content	0.0 to 0.020 %	0.0 to 0.020 %	Karl Fisher

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60x60x2mm, 4 hr

<sup>3</sup> 60x60x2mm, 80°C MT, 600 bar

<sup>4</sup> 0.079 in/min (2.0 mm/min)

<sup>5</sup> 2 mm/min

<sup>6</sup> 10°C/min



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### Where to Buy

#### Supplier

**LANXESS GmbH**

, Germany

**Telephone:** +49-221-8885-0

**Web:** <http://www.lanxess.de/>

#### Distributor

**ALBIS Plastic**

*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.*

**Telephone:** +49-40-78105-0

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**Availability:** Austria, Belgium, China, Denmark, Estonia, Finland, France, Germany, Hong Kong, Ireland, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Portugal, Russian Federation, Spain, Sweden, Switzerland, Turkey, United Kingdom

