

## Lanxess Pocan® B 1701 000000 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

PBT, non-reinforced, extrusion, food contact Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-B-1701-000000-PBT.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-1701-000000-PBT.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ISO 1183
Bulk Density	0.800 g/cc	0.0289 lb/in <sup>3</sup>	ISO 60
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.020 cm/cm	0.020 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.020 cm/cm	0.020 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4
Melt Flow	12 g/10 min	12 g/10 min	ISO 1133-1
	@Load 2.16 kg, Temperature 260 Å°C	@Load 4.76 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-1, -2; 50 mm/min
Elongation at Break	>= 20 %	>= 20 %	ISO 527-1, -2; 50 mm/min
Elongation at Yield	9.0 %	9.0 %	ISO 527-1, -2; 50 mm/min
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178-A
	@Strain 6.00 %	@Strain 6.00 %	
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178-A

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	$\leq 10.0 \text{ kJ/m}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180-1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	20.0 J/cm <sup>2</sup> @Temperature -30.0 °C	95.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179-1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	ISO 179-1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 55.0 °C	66.7 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 131 °F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	120 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 55.0 °C	66.7 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 131 °F	ISO 11359-1, -2
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1, -2
Vicat Softening Point	180 °C	356 °F	120°C/hour; ISO 306

Thermal Properties	@Load 5.10 kg Metric	@Load 11.2 lb English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	<= 1.00e+15 ohm	<= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 7792-1-PBT, GM, 13-030	

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