

## Lanxess Pocan<sup>®</sup> B 1305 000000 PBT

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

### Material Notes:

PBT, non-reinforced, injection molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-B-1305-000000-PBT.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-1305-000000-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.50 %	0.50 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 <sup>°</sup> C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	105 cm <sup>3</sup> /g	105 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	66 g/10 min @Load 2.16 kg, Temperature 260 <sup>°</sup> C	66 g/10 min @Load 4.76 lb, Temperature 500 <sup>°</sup> F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	20 %	20 %	Nominal; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	ISO 527-1/-2
Charpy Impact Unnotched	15.0 J/cm <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	71.4 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	ISO 179/1eU
	18.0 J/cm <sup>2</sup> @Temperature 23.0 <sup>°</sup> C	85.7 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>°</sup> F	ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup> @Temperature 23.0 <sup>°</sup> C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>°</sup> F	ISO 179/1eA
Impact	3944	3944	Puncture maximum force (N); ISO 6603-2

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	45.0 J	33.2 ft-lb	ISO 6603-2
	5.00 J	3.69 ft-lb	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 6603-2
Tensile Creep Modulus, 1 hour	2400 MPa	348000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	1400 MPa	203000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 Âµm/m-Â°C	66.7 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 Âµm/m-Â°C	66.7 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	225 Â°C	437 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	45.0 Â°C	113 Â°F	ISO 75-1/-2
Vicat Softening Point	180 Â°C	356 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	24 %	24 %	ISO 4589-1/-2

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	

Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	IEC 60250 Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.019	0.019	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 Â°F	Injection Molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding; ISO 10724

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GHMR,09-030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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