

Lanxess Pocan® DP 1105 000000 PBT

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-DP-1105-000000-PBT.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0022 cm/cm	0.0022 in/in	ISO 294-4, 2577
Melt Flow	55 g/10 min @Load 1.20 kg, Temperature 250 °C	55 g/10 min @Load 2.65 lb, Temperature 482 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Break	10 %	10 %	Nominal; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Charpy Impact Unnotched	13.5 J/cm ² @Temperature 23.0 °C	64.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Impact	2896	2896	Puncture maximum force (N); ISO 6603-2
	1072 @Temperature -30.0 °C	1072 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	14.7 J	10.8 ft-lb	ISO 6603-2
	2.00 J @Temperature -30.0 °C	1.48 ft-lb @Temperature -22.0 °F	ISO 6603-2

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 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	50.0 Â°C	122 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 0.750 mm	@Thickness 0.0295 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	25.1 %	25.1 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+17 ohm	1.00e+17 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	30.2 kV/mm	767 kV/in	IEC 60243-1
Dissipation Factor	0.0014	0.0014	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0224	0.0224	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	350 V	350 V	IEC 60112

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

Descriptive Properties	Value	Comments
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GHMR,07-030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China