

## Lanxess Pocan® B 2505 000000 PBT

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

### Material Notes:

PBT, non-reinforced, injection molding, flame retardant

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-B-2505-000000-PBT.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-2505-000000-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.40 %	0.40 %	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	0.00199 cm/cm	0.00199 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0026 cm/cm	0.0026 in/in	ISO 294-4, 2577
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 250 °C	17 g/10 min @Load 4.76 lb, Temperature 482 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-1/-2
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	7.8 %	7.8 %	ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup> @Temperature -30.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	10.0 J/cm <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
Impact	2270	2270	Puncture maximum force (N); ISO 6603-2
Puncture Energy	6.90 J	5.09 ft-lb	ISO 6603-2
Tensile Creep Modulus, 1 hour	2800 MPa	406000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	1800 MPa	261000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Åµm/m-Å°C	52.8 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	225 Å°C	437 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Å°C	158 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	48.0 Å°C	118 Å°F	ISO 75-1/-2
Vicat Softening Point	190 Å°C	374 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	32 %	32 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 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	28.0 kV/mm	711 kV/in	IEC 60243-1

Electrical Properties	0.0020 Metric	0.0020 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	250 Â°C	482 Â°F	Injection Molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding; ISO 10724

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Flame retardant	
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GFMHR,11-030; ISO 1043-PBT FR(17)	
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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China