

## BASF Ultradur® B 4520 High Speed PBT

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

### Material Notes:

Description: Very easy flowing unreinforced injection molding grade with enhanced elongation for thin-walled parts (e.g. automotive connectors, switches, relay parts) Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultradur-B-4520-High-Speed-PBT.php](http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4520-High-Speed-PBT.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.900 g/cc	0.0217 - 0.0325 lb/in <sup>3</sup>	
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Viscosity Measurement	115	115	[cm <sup>&lt;sup&gt;3&lt;/sup&gt;/g]; ISO 307</sup>
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 2577
Melt Flow	65 g/10 min @Load 2.16 kg, Temperature 250 °C	65 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.0 MPa	7690 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	50 mm/min; ISO 527-1/-2
	>= 50 %	>= 50 %	Nominal Strain, 50 mm/min; ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1/-2
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm <sup>2</sup> @Temperature 23.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Tensile strength at 1.8 MPa (26.4 psi)	35.0 °C	130 °F	ISO 1817-2

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	260 °C	500 °F	Feeding zone
Zone 2	260 °C	500 °F	Compression
Zone 3	260 °C	500 °F	Metering-zone
Zone 4	260 °C	500 °F	Nozzle
Melt Temperature	260 °C	500 °F	Optimal
	250 - 275 °C	482 - 527 °F	Injection molding/Extrusion
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	Injection molding
	60.0 °C	140 °F	Optimal
Drying Temperature	80.0 - 120 °C	176 - 248 °F	
Dry Time	4 hour	4 hour	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	350°C	ASTM D1929
Peripheral screw speed	< 0.25 m/s	

## Contact Songhan Plastic Technology Co.,Ltd.

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