

## BASF Ultradur® B 4330 G6 HR 30% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

### Material Notes:

Description: Is a PBT-I, injection-molding grade with 30% glass fibers, for rigid, tough and dimensionally stable technical parts with increased requirements on hydrolysis resistance and toughness, e.g. automotive connectors and housings for electronic units under the hood. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultradur-B-4330-G6-HR-30-Glass-Filled-PBT.php](http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4330-G6-HR-30-Glass-Filled-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.40 %	0.40 %	Saturation; DIN 53495/1L
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH
Viscosity Measurement	108	108	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	60x60x2 mm; ISO 294
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	60x60x2 mm; ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	50 mm/min; ISO 527-2
Elongation at Break	3.4 %	3.4 %	50mm/min; ISO 527-2
Modulus of Elasticity	8.50 GPa	1230 ksi	ISO 527-2
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	7.40 J/cm <sup>2</sup>	35.2 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
Maximum Service Temperature, Air	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-2
Deflection Temperature at 1.8 MPa	205 °C	401 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	250 °C	482 °F	Feeding zone
Zone 2	255 °C	491 °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 - 280 °C	482 - 536 °F	Injection-molding
Mold Temperature	60.0 - 100 °C	140 - 212 °F	Injection molding
	80.0 °C	176 °F	Optimal
Drying Temperature	80.0 - 120 °C	176 - 248 °F	
Dry Time	4 hour	4 hour	

Descriptive Properties	Value	Comments
Color	Natural and Black	
Commercial Status	Europe	
Ignition Temperature	350°C	ASTM D1929
Peripheral screw speed	<0.25 m/s	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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