

BASF Ultradur B 4520 BK00110 PBT

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

Material Notes:

Ultradur B 4520 BK00110 is a medium viscosity, pigmented black, rapidly freezing injection molding grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4520-BK00110-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 %	ISO 62
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23°C/50% R.H.; ISO 62
Viscosity Test	119 cm ³ /g	119 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.0 MPa	8270 psi	50mm/min; ISO 527
	57.0 MPa	8270 psi	2 in/min; ASTM Test
Elongation at Yield	9.6 %	9.6 %	2 in/min; ASTM Test
	15 %	15 %	50mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Modulus	2.50 GPa	363 ksi	ISO Data
Izod Impact, Notched (ISO)	4.80 kJ/m ²	2.28 ft-lb/in ²	ISO Test
	4.20 kJ/m ² @Temperature -40.0 °C	2.00 ft-lb/in ² @Temperature -40.0 °F	ISO Test
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10 K/min
	223 °C	433 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ISO 75
Deflection Temperature at 1.8 MPa	55.0 °C	131 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75 Comments
Descriptive Properties		Value	Comments
Color		BK110	
Commercial Status		North America and Europe	
Form		Pellets	
Impact Modified		No	
Primary Processing Technique		Injection Molding	
Special characteristic		Heat stabilized or stable to heat	
		Light stabilized or stable to light	
		Lubricant	
		U.V. stabilized or stable to weather	

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