

# Ultradur® B 4520 BK00110

## Polybutylene Terephthalate (PBT)



### Product Description

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

### Applications

Typical applications include chassis and housings for home appliances, office and sewing machines, and coil formers.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm <sup>3</sup>	1183	1.30
Viscosity Number, cm <sup>3</sup> /g	1628	119
Moisture, %	62	
(50% RH)		0.25
(Saturation)		0.5
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		2,400
Tensile stress at yield, MPa	527	
23C		57
Tensile strain at yield, %	527	
23C		3.5
Nominal strain at break, %	527	
23C		15
Flexural Modulus, MPa	178	
23C		2,500
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m <sup>2</sup>	180	
-40C		4.2
23C		4.8
Charpy Notched, kJ/m <sup>2</sup>	179	
23C		5
THERMAL	ISO Test Method	Property Value
Melting Point, C	3146	223
HDT A, C	75	55
HDT B, C	75	132
UL RATINGS	UL Test Method	Property Value
Flammability Rating, 0.75mm	UL94	HB
Relative Temperature Index, 0.75mm	UL746B	
Mechanical w/o Impact, C		140
Mechanical w/ Impact, C		130
Electrical, C		130
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	

Mechanical w/o Impact, C		140
Mechanical w/ Impact, C		130
Electrical, C		130
Flammability Rating, 2.8mm	UL94	HB
Relative Temperature Index, 2.8mm	UL746B	
Mechanical w/o Impact, C		140
Mechanical w/ Impact, C		130
Electrical, C		130

**Note**

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