

## Ultradur® B 4520 BK00110

# Polybutylene Terephthalate (PBT)

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
<b>Moisture, %</b>	62	
(50% RH)		0.25
(Saturation)		0.5
MECHANICAL	ISO Test Method	Property Value
<b>Tensile Modulus, MPa</b>	527	
23°C		2,400
<b>Tensile stress at yield, MPa</b>	527	
23°C		57
<b>Tensile strain at yield, %</b>	527	
23°C		3.5
<b>Nominal strain at break, %</b>	527	
23°C		15
<b>Flexural Modulus, MPa</b>	178	
23°C		2,500
IMPACT	ISO Test Method	Property Value

Izod Notched Impact, kJ/m <sup>2</sup>	180	
-40°C		4.2
23°C		4.8
Charpy Notched, kJ/m <sup>2</sup>	179	
23°C		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

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## Note

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