

Ultradur[®] B 4520 BK00110

PBT (Polybutylene Terephthalate)

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 ³	1183	1.3
Viscosity Number, cm ³ /g	1628	119
Moisture, %	62	
(50% RH)		0.25
(Saturation)		0.5

MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23°C		2,400
Tensile stress at yield, MPa	527	
23°C		57
Tensile strain at yield, %	527	
23°C		3.5
Nominal strain at break, %	527	
23°C		15
Flexural Modulus, MPa	178	
23°C		2,500

IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m ²	180	
-40°C		4.2
23°C		4.8
Charpy Notched, kJ/m ²	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

Note

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