

Ultradur® B 4406 G4 BK7110 **Polybutylene Terephthalate (PBT)**



Product Description

Ultradur B 4406 G4 BK7110 is an injection molding grade with 20 % glass fibers, pigmented black, for parts requiring enhanced fire resistance (eg relay housings, plug-and-socket connectors, switches, lighting components).

Applications

Typical applications include relay housings, plug-and-socket connectors, switches, and lighting components.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm ³	1183	1.55
Viscosity Number, cm ³ /g	1628	116
Moisture, %	62	
(50% RH)		0.2
(Saturation)		0.4
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		8,500
Tensile stress at break, MPa	527	
23C		130
Tensile strain at break, %	527	
23C		2.4
IMPACT	ISO Test Method	Property Value
Charpy Notched, kJ/m ²	179	
23C		9
THERMAL	ISO Test Method	Property Value
Melting Point, C	3146	223
HDT A, C	75	217
UL RATINGS	UL Test Method	Property Value
Flammability Rating, 0.4mm	UL94	V-0
Relative Temperature Index, 0.4mm	UL746B	
Mechanical w/o Impact, C		75
Mechanical w/ Impact, C		75
Electrical, C		75
Flammability Rating, 0.75mm	UL94	V-0
Relative Temperature Index, 0.75mm	UL746B	
Mechanical w/o Impact, C		125
Mechanical w/ Impact, C		120
Electrical, C		140
Flammability Rating, 1.5mm	UL94	V-0
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		130
Mechanical w/ Impact, C		120

Electrical, C		140
Flammability Rating, 3.0mm	UL94	V-0
Relative Temperature Index, 3.0mm	UL746B	
Mechanical w/o Impact, C		130
Mechanical w/ Impact, C		120
Electrical, C		140

Note

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