

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

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required.