

Ultradur® B 4406 G4 BK7110

Polybutylene Terephthalate

BASF Corporation

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).

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

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight
Additive	• Ignition Resistant
Features	• Flame Retardant
Uses	• Connectors • Lighting Fixtures • Housings • Switches
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number	116	cm ³ /g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.4	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	217	°C	
Melting Temperature (DSC)	223	°C	ISO 3146

Notes

¹ Typical properties: these are not to be construed as specifications.

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