

# Ultradur® B 4406 G6 BKQ113 7110

## Polybutylene Terephthalate

### BASF Corporation

#### Product Description

Ultradur B 4406 G6 BKQ113 7110 is an UL V0 injection molding, pigmented black, PBT grade with 30% glass fiber reinforcement.

#### General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Additive	• Ignition Resistant • Lubricant
Features	• Flame Retardant • High Impact Resistance • Lubricated
Uses	• Connectors • Switches
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1650	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	105	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	11700	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	143	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	1.9	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	10.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	220	°C	
1.8 MPa	195	°C	
Melting Temperature (DSC)	223	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	
Back Pressure	< 1.00	MPa

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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