

Ultradur® B 4406 G4 BK7110

Polybutylene Terephthalate

BASF Corporation

Message:

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.

General Information			
UL YellowCard	E36632-100378527	E36632-531670	E41871-233788
	E41871-233789		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
Uses	Connectors		
	Housings		
	Lighting Applications		
	Switches		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	116.0	ml/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/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	217	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146

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