

Ultradur® B 4520 BK00110

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4520 BK00110 is a medium viscosity, pigmented black, rapidly freezing injection molding grade.

General Information			
UL YellowCard	E36632-531673		
Additive	Lubricant		
Features	Lubricated		
	Medium Viscosity		
Uses	Appliances		
	Housings		
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	1.30	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.25	%	
Viscosity Number (Reduced Viscosity)	119.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	57.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	15	%	ISO 527-2
Flexural Modulus (23°C)	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	4.2	kJ/m ²	
23°C	4.8	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A

Melting Temperature (DSC)	223	°C	ISO 3146
RTI Elec			UL 746
0.750 mm	130	°C	
1.50 mm	130	°C	
2.80 mm	130	°C	
RTI Imp			UL 746
0.750 mm	130	°C	
1.50 mm	130	°C	
2.80 mm	130	°C	
RTI Str			UL 746
0.750 mm	140	°C	
1.50 mm	140	°C	
2.80 mm	140	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		
2.80 mm	HB		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

