


Product Information	Ultradur[®] B 4520 PBT (Polybutylene Terephthalate)	 BASF The Chemical Company
Oct 2009		

Product Description

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

Applications

Typical applications include chassis and housings for home appliances, office and sewing machines, and coil formers.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm ³	1183	1.3
Viscosity Number, cm ³ /g	1628	130
Moisture, %	62	
(50% RH)		0.25
(Saturation)		0.5
RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (250 °C/2.16 Kg), cc/10min.	1133	19
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23°C		2,500
Tensile stress at yield, MPa	527	
-40°C		94
23°C		60
80°C		22
121°C		18
Tensile strain at yield, %	527	
23°C		3.7
Nominal strain at break, %	527	
23°C		>50
Flexural Modulus, MPa	178	

23°C		2,400
Tensile Creep Modulus (1000h), MPa	899	1,200
Tensile Creep Modulus (1h), MPa	899	1,800
IMPACT	ISO Test Method	Property Value
Charpy Notched, kJ/m ²	179	
23°C		6
-30°C		3
Charpy Unnotched, kJ/m ²	179	
23°C		N
THERMAL	ISO Test Method	Property Value
Melting Point, °C	3146	223
HDT A, °C	75	60
Coef. of Linear Thermal Expansion, Parallel, mm/mm °C		1.45 X10-4
ELECTRICAL	ISO Test Method	Property Value
Comparative Tracking Index	IEC 60112	550
Volume Resistivity	IEC 60093	>1E13
Surface Resistivity	IEC 60093	1E13
Dielectric Constant (100 Hz)	IEC 60250	3.4
Dielectric Constant (1 MHz)	IEC 60250	3.3
Dissipation Factor (100 Hz)	IEC 60250	20
Dissipation Factor (1 MHz)	IEC 60250	200
UL RATINGS	ISO Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, °C		140
Mechanical w/ Impact, °C		130
Electrical, °C		130

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！