

Ultradur® B 6550 L

Polybutylene Terephthalate

BASF Corporation

Product Description
Ultradur B 6550 L is a high viscosity PBT extrusion grade.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• High Viscosity		
Uses	• Profiles	• Rods	
Agency Ratings	• FDA 21 CFR 177.1660		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion • Film Extrusion	• Injection Molding • Profile Extrusion	• Sheet Extrusion
Multi-Point Data	• Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	1.30 g/cm ³	ASTM D792
	--	1300 kg/m ³	ISO 1183 ²
Melt volume-flow rate (250°C/2.16 kg)		9.00 cm ³ /10min	ISO 1133 ²
Molding Shrinkage - Flow (3.18 mm)		1.5 %	ASTM D955
Water Absorption			
Saturation		0.50 %	ASTM D570 ISO 62 ²
Equilibrium, 50% RH		0.25 %	ASTM D570
Equilibrium		0.25 %	ISO 62 ²
Viscosity Number		160 cm ³ /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus		2500 MPa	ISO 527-2 ²
Tensile Strength			
Yield, 23°C		50.0 MPa	ASTM D638
Yield, -40°C		90.0 MPa	ISO 527-2
Yield		50.0 MPa	ISO 527-2 ²
Tensile Elongation			
Yield, 23°C		3.5 %	ASTM D638
Yield		3.5 %	ISO 527-2 ²
Nominal strain at break		> 50 %	ISO 527-2 ²
Flexural Modulus (23°C)		2030 MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)		7.00 kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength (23°C)		No Break	ISO 179
Notched Izod Impact (23°C)		53.0 J/m	ASTM D256

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！

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Tuesday, December 15, 2009

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	132	°C	ASTM D648
1.8 MPa, Unannealed	52.0	°C	ASTM D648
1.8 MPa	50.0	°C	ISO 75-2 ²
Melting Temperature	223	°C	ASTM D3418 ISO 3146
CLTE - Flow	0.000097	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	> 1.0E+15	ohms	ASTM D257 IEC 60093 ²
Volume Resistivity			
1.50 mm	> 1.0E+13	ohm·cm	ASTM D257
--	> 1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.40		
1 MHz	3.20		
Dissipation Factor			IEC 60250 ²
100 Hz	10		
1 MHz	220		
Comparative tracking index	600		IEC 60112 ²
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.040	%	
Cylinder Zone 1 Temp.	250	°C	
Cylinder Zone 3 Temp.	240	°C	
Cylinder Zone 5 Temp.	230	°C	
Adapter Temperature	225	°C	
Melt Temperature	230 to 290	°C	
Die Temperature	215	°C	

Notes

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

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

³ 1.5 mm

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