

Ultradur® B 6550 L

Polybutylene Terephthalate

BASF Corporation

Message:

High viscosity extrusion grade for semi-finished products, profile and hollow rods.

General Information			
Features	High Viscosity		
Uses	Profiles		
	Rods		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1660		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Resin ID (ISO 1043)	PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm ³	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	9.50	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.25	%	
Viscosity Number ¹	160	cm ³ /g	ISO 307
Mold Shrinkage ²			
free, longitudinal	1.6	%	
free, transverse	1.7	%	
Automotive Materials (> 1.00 mm)	Passed		FMVSS 302
ISO Type	PBT, EGHLNR, 15-030		ISO 7792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/50
Flexural Modulus	2030	MPa	ISO 178

Flexural Stress	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.8	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Melting Temperature	223	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	9.7E-5 to 1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.40		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.3E-3		
1 MHz	0.022		
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.400 mm	HB		
1.60 mm	HB		
Extrusion	Nominal Value	Unit	
Melt Temperature	250 to 275	°C	
NOTE			
1.	solution 0,005 g/ml Phenole/1,2 Dichlorbenzol 1:1		
2.	plate with film gate 150*150*3 mm ³		

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



WECHAT