Ultradur® B 6550 LN

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 6550 LN is a high viscosity PBT extrusion grade.
Applications
Typical applications include semi-finished products, profile and hollow rods.

General Information			
Features	Viscosity, High		
Uses	Bar Profile		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.30	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	9.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	2.2	%	ISO 294-4
Flow direction	1.9	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Viscosity Number (Reduced Viscosity)	160.0	ml/g	ISO 1628
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	56.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2
Flexural Stress (23°C)	76.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	220	kJ/m²	ISO 179
23°C	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	5.0E+15	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	3.40		IEC 60250
1 MHz	3.20		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	1.9E-3		IEC 60250
1 MHz	0.022		IEC 60250
Comparative Tracking Index	475	V	IEC 60112
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	100 - 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 - 290	°C	
Die Temperature	215	°C	
Extruder Screw L/D Ratio	20.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0		

Extrusion instructions

Screw Parameters
Metering Section : 45%
Transition Section : 3 to 4 flights
Feed Section : balance of screw length

Recommended distributors for this material

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