

Ultradur® B 6550 LN

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 6550 LN is a high viscosity PBT extrusion grade.

Applications

Typical applications include semi-finished products, profile and hollow rods.

General				
Material Status	Commercial: Active			
Availability	Asia Pacific	• Europe	North America	
Features	 High Viscosity 			
Uses	 Profiles 	• Rods		
Agency Ratings	• EC 1907/2006 (REACH	1)		
RoHS Compliance	 RoHS Compliant 			
Appearance	Natural Color			
Forms	 Pellets 			
Processing Method	 Extrusion 			

ASTM &	ASTM & ISO Properties 1				
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		
Across Flow	2.2	%			
Flow	1.9	%			
Water Absorption (Saturation, 73°F)	0.40	%	ISO 62		
Water Absorption (Equilibrium, 73°F, 50% RH)	0.25	%	ISO 62		
Viscosity Number (Reduced Viscosity)	160.0	ml/g	ISO 1628		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (73°F)	377000	psi	ISO 527-2		
Tensile Stress (Yield, 73°F)	8120	psi	ISO 527-2		
Tensile Strain (Yield, 73°F)	3.5	%	ISO 527-2		
Nominal Tensile Strain at Break (73°F)	> 50	%	ISO 527-2		
Flexural Stress (73°F)	11000	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in²	ISO 179		
Charpy Unnotched Impact Strength			ISO 179		
-22°F	100	ft·lb/in²			
73°F	No Break				
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (66 psi, Unannealed)	275	°F	ISO 75-2/B		
Heat Deflection Temperature (264 psi, Unannealed)	122	°F	ISO 75-2/A		
Melting Temperature (DSC)	433	°F	ISO 3146		

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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		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.9E-3		
1 MHz	0.022		
Comparative Tracking Index	475	V	IEC 60112

Processing Information			
Extrusion	Nominal Value	Unit	
Drying Temperature	212 to 248	°F	
Drying Time	4.0	hr	
Suggested Max Moisture	0.040	%	
Cylinder Zone 1 Temp.	482	°F	
Cylinder Zone 3 Temp.	464	°F	
Cylinder Zone 5 Temp.	446	°F	
Adapter Temperature	437	°F	
Melt Temperature	446 to 554	°F	
Die Temperature	419	°F	
Extruder Screw L/D Ratio	20.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0		

Screw Parameters

Siew Farameters

Metering Section : 45%

• Transition Section : 3 to 4 flights

• Feed Section : balance of screw length

Notes

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

