

BASF Ultradur® B 4300 G6 FC 30% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Description: The BASF Ultradur® FC (Food Contact) grades enable the industry to develop products for food contact applications which are in compliance with multiple regional food contact regulations including FDA, European Food Contact n°2002/72/EC and GMP (EC) n°2023/2006. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G6-FC-30-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.900 g/cc	0.0217 - 0.0325 lb/in ³	
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Viscosity Measurement	102	102	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	plate with film gate 150x150x3mm ³
	0.0034 cm/cm	0.0034 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0107 cm/cm	0.0107 in/in	ISO 2577
	0.011 cm/cm	0.011 in/in	
Melt Flow	16.83 g/10 min @Load 2.16 kg, Temperature 250 °C	16.83 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa @Load 98.0 kg, Time 30.0 sec	27600 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	9.80 GPa	1420 ksi	ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	ISO 178
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	7.40 J/cm ²	35.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.950 J/cm ²	4.52 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	7500 MPa	1.09e+6 psi	ISO 899-1
	@Strain <=0.500 %	@Strain <=0.500 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 μm/m-°C	11.1 - 16.7 μin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² -°F	DIN 52612-1
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Maximum Service Temperature, Air	140 °C	284 °F	at 50% loss of tensile strength after 20,000hr
	160 °C	320 °F	at 50% loss of tensile strength after 5,000hr
	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75-1/-2
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Diameter 4.00 mm	@Diameter 0.157 in	
	HB	HB	
	@Diameter 0.400 mm	@Diameter 0.0157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
	3.8	3.8	

Dielectric Constant Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	IEC 60250 Comments
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	125 V	125 V	Test Solution B; IEC 60112
	375 V	375 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 275 °C	482 - 527 °F	Injection molding/Extrusion
Mold Temperature	60.0 - 100 °C	140 - 212 °F	Injection molding

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	350°C	ASTM D1929

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