

BASF Ultradur® B 4300 G2 FC 10% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% 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. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G2-FC-10-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	1.37 g/cc	0.0495 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	115	115	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	plate with film gate 150x150x3mm ³
	0.0122 cm/cm	0.0122 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0134 cm/cm	0.0134 in/in	plate with film gate 150x150x3mm ³
	0.0138 cm/cm	0.0138 in/in	ISO 2577
Melt Flow	21.92 g/10 min @Load 2.16 kg, Temperature 250 °C	21.92 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa @Load 98.0 kg, Time 30.0 sec	23200 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	4.5 %	4.5 %	ISO 524-1/-2
Tensile Modulus	4.50 GPa	653 ksi	ISO 527-1-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Charpy Impact Unnotched	3.80 J/cm ² @Temperature -30.0 °C	18.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 - 50.0 µm/m-°C	22.2 - 27.8 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612-1
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Maximum Service Temperature, Air	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)	200 °C	392 °F	ISO 75-1/-2
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness >=0.400 mm	@Thickness >=0.0157 in	
	HB	HB	by electrical sources of ignition, Method BH; IEC 60707
	@Thickness >=4.00 mm	@Thickness >=0.157 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0012	0.0012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	125 V	125 V	Test Solution B; IEC 60112
	300 V	300 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China