

BASF Ultradur® B 4300 G4 FC 20% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% 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-G4-FC-20-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	1.45 g/cc	0.0524 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	107	107	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	plate with film gate 150x150x3mm ³
	0.0043 cm/cm	0.0043 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0116 cm/cm	0.0116 in/in	ISO 2577
	0.0128 cm/cm	0.0128 in/in	plate with film gate 150x150x3mm ³
Melt Flow	20.3 g/10 min @Load 2.16 kg, Temperature 250 °C	20.3 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	180 MPa @Load 98.0 kg, Time 30.0 sec	26100 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	115 MPa	16700 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 524-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527-1-2
Flexural Strength	170 MPa	24700 psi	ISO 178
Charpy Impact Unnotched	5.40 J/cm ² @Temperature -30.0 °C	25.7 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	0.600 J/cm ²	2.86 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	30.0 - 40.0 µm/m-°C	16.7 - 22.2 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	DIN 52612-1
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Maximum Service Temperature, Air	135 °C	275 °F	at 50% loss of tensile strength after 20,000hr
	150 °C	302 °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)	205 °C	401 °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	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.7	3.7	IEC 60250

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.0012	0.0012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	150 V	150 V	Test Solution B; IEC 60112
	300 V	300 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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