

Ultradur® B 4300 G6 BK05110

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 4300 G6 BK05110 is an easy flowing, pigmented black, injection molding PBT with 30% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

Applications

Typical applications include windshield wiper arms, printed circuit boards, housings, consoles, contact carriers, and covers.

General		
Material Status	Commercial: Active	
Availability	North America	
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight	
Features	 Good Dimensional Stability Good Rigidity Good Toughness	
Uses	 Automotive Applications Housings Printed Circuit Boards Protective Coverings 	
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	RoHS Compliant	
Automotive Specifications	 FORD WSK-M4D608-A FORD WSK-M4D725-A GM GMP.PBT.010 Color: Black GM GMW16733P-PBT-GF30 Color: Black Color: Black 	3F3(
Appearance	Black	
Forms	• Pellets	
Processing Method	Injection Molding	

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density	1.53	g/cm³	ISO 1183		
Water Absorption (24 hr, 73°F)	0.20	%	ISO 62		
Water Absorption (Saturation, 73°F)	0.40	%	ISO 62		
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62		
Viscosity Number (Reduced Viscosity)	104.0	ml/g	ISO 1628		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (73°F)	1.42E+6	psi	ISO 527-2		
Tensile Stress (Break, 73°F)	19700	psi	ISO 527-2		
Tensile Strain (Break, 73°F)	2.6	%	ISO 527-2		
Flexural Modulus (73°F)	1.28E+6	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in²	ISO 179		
Charpy Unnotched Impact Strength (73°F)	30	ft·lb/in²	ISO 179		
Notched Izod Impact Strength (73°F)	5.2	ft·lb/in²	ISO 180		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Unannealed)	405	°F	ISO 75-2/A		
Melting Temperature (DSC)	433	°F	ISO 3146		
Electrical	Nominal Value	Unit	Test Method		
Surface Resistivity	1.0E+13	ohms	IEC 60093		



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Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093

Processing Information			
njection	Nominal Value	Unit	
Drying Temperature	212 to 248	°F	
Drying Time	4.0	hr	
Suggested Max Moisture	0.040	%	
Processing (Melt) Temp	482 to 518	°F	
Mold Temperature	140 to 212	°F	
Injection Pressure	508 to 1810	psi	
Injection Rate	Fast		
Back Pressure	< 145	psi	

Notes

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