

TECHNICAL DATASHEET



Polyamide 6

BG6HF11C

BG6HF11C is a 30% glass-fiber reinforced PA6 for injection molding

SNT Solution GmbH

It provides prominent surface finish, in addition to providing good mechanical properties

General

Material Status	Commercial:	Active
Reinforcement	● Reinforced	
Features	● Nature Color	
Uses	● Vehicle fan stents	● Shell of electric tools and other accessory, etc
UL Compliance	● UL Compliant	
Flame Retardance	● HB	
Appearance	● Nature Color	
Forms	● Pellets	

Physical	Test Conditions	Typical Value Unit	Test Method
Density	23°C	1.37 g/cm ³	ISO1183
Glass Fiber Content	-	30 %	ISO3451-1

Mechanical	Test Conditions	Typical Value Unit	Test Method
Flexural Strength	23°C, 2mm/min	250 MPa	ISO178
Flexural Modulus	23°C, 2mm/min	8800 MPa	ISO178
Tensile Strength	I-spline, 50mm/min	178 Mpa	ISO527
Elongation at Break	I-spline, 50mm/min	4 %	ISO527
Charpy Notched Impact Strength	23°C	15 kJ/m ²	ISO179/1eA
Charpy Unnotched Impact Strength	23°C	85 kJ/m ²	ISO179/1eU

Thermal	Test Conditions	Typical Value Unit	Test Method
Melting Temperature	-	220 °C	ISO11357
Melt Index	250°C, 2.16kg	16.5 g/10min	ISO1133
Temperature of Deflection Under Load	0.45MPa	215 °C	ISO75-2
	1.8Mpa	205 °C	ISO75-2

Electrical	Test Conditions	Typical Value Unit	Test Method
Volume Resistivity	-	10 ¹⁵ Ω.cm	IEC60093
Surface Resistivity	-	10 ¹³ Ω	IEC60093

Flammability	Test Conditions	Typical Value Unit	Test Method
Flammability	-	HB -	UL-94

Typical Molding Process	Test Conditions	Typical Value Unit	Test Method
Dry	Drum Wind Oven	100~120 °C	4~6h
	Cycling Warm Air	100~120 °C	4~6h
	Vacuum Drying Oven	100~120 °C	3~4h
Processing temperature	Feed Section	225~240 °C	-
	Compressing Section	250~280 °C	-
	Metering Secion	250~280 °C	-
Injection pressure		70~130 MPa	-
Packing pressure		40~90 MPa	-
Mold temperature		70~100 °C	-
Back pressure		8~20 MPa	-

Product Packaging

25kgs Bag