ArcBiox™ BGF30–JA

Technical DataSheet | Supplied by ABMcomposite

ArcBiox™ BGF30-JA by ABMcomposite is a high temperature resistant, biodegradable, bio-polyester blend reinforced with long glass fiber. It is made from 50% bio-based content. It can be processed by injection molding. It offers good flowability, high stiffness & strength, excellent flatness & dimensional stability and high temperature resistance. ArcBiox™ BGF30-JA is recommended for automotive, consumer electronics and furniture industry.

Product Type	Polyester > Polyester, Bio-based
Product Status	COMMERCIAL
Applications/ Recommended for	Automotive Electronics / Computers Furnitures Injection molding - thermoplastics
Biodegradable	Yes
Bio Based	Yes
Bio Based Content (%)	50
Key Features	Dimensional stability, Good Biodegradable Flow, Good Filled, Glass Fiber Renewable Resource Content Strength, High Stiffness, High

ArcBiox™ BGF30–JA Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.5 g/cm³		ISO 1183 A

Mechanical	Value & Unit	Test Condition	Test Method
Tensile Strength at Break	107 MPa		ISO 527

Flexural Strength	180 MPa		ISO 178
Impact Strength, Izod	29 kJ/m^2		ISO 180/U
Impact Strength, Notched Izod	22 kJ/m^2		ISO 180/A
Flexural Modulus	8.8 GPa		ISO 178

Thermal	Value & Unit	Test Condition	Test Method
Vicat Softening Temperature	172 °C	B 50	ISO 306
Heat Deflection Temperature (HDT)	209 °C	1.8 MPa	ISO 75

ArcBiox™ BGF30–JA Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method
Melt Temperature	250 - 260 °C		
Nozzle Temperature	240 - 260 °C		
Feed Temperature	240 - 250 °C		
Compression Section	250 - 260 °C		
Metering Section	250 - 260 °C		
Back Pressure	3 - 5 bars		
Holding Pressure	60 %		

Mold Temperature	80 °C
Feed Throat Temperature	30 - 50 °C
Drying Temperature, Dehumidifying Dryer	80 °C
Drying Time, Dehumidifying Dryer	4 - 5 hrs
Screw Speed	low - medium

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