

Amodel® Bios HFFR R1-145

PPA-GF45

Syensqo

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Flexural Modulus (23°C)	16100	MPa	ISO 178
Flexural strength	274	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	9	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	48	kJ/m ²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	315	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	273	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	296	°C	ISO 75-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1620	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 130	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.06	%	-
Melt temperature	325 - 345	°C	-
Mold temperature	150 - 170	°C	-
Zone 1	305 - 320	°C	-
Zone 2	320 - 335	°C	-
Injection speed	75 - 100	mm/s	-

Characteristics
Processing

Injection Molding

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets, Black, Natural Color

Certifications

Contains renewable resources

Special Characteristics

Flame retardant, Halogen-free, Impact modified

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Features

Creep Resistance