

Amodel® Bios HFFR R1-133

PPA-GF33

Syensqo

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11900	MPa	ISO 527
Tensile Strength	148	MPa	ISO 527
Strain at Break	2.1	%	ISO 527
Flexural Modulus (23°C)	11700	MPa	ISO 178
Flexural strength	243	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	7.9	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	49	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)	275	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	299	°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	1490	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	Chemical Resistance
Injection Molding	General Chemical Resistance
Delivery form	Certifications
Pellets, Black, Natural Color	Contains renewable resources
Special Characteristics	Applications
Flame retardant, Halogen-free, Impact modified	Aircraft and Aerospace, Automotive, Electrical and Electronical
Features	
Creep Resistance	