

Amodel® Bios AE R1-133

PPA-GF33

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11000	MPa	ISO 527
Tensile Strength	209	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus, 23°C	10300	MPa	ISO 178
Flexural strength	303	MPa	ISO 178
Izod impact strength, +23°C	55	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	11	kJ/m ²	ISO 180/1A

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	265	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	292	°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
Density	1420	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

Delivery form

Pellets, Black, Natural Color

Special Characteristics

High impact or impact modified

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Certifications

Contains renewable resources, RoHS compliant

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa