

Amodel® Bios AE R1-133

PPA-GF33

Syensqo

Rheological properties	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
Notched Impact Strength (Izod), 23°C	11	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	55	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)	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
ISO Data			
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	Chemical Resistance General Chemical Resistance
Delivery form Pellets, Black, Natural Color	Certifications Contains renewable resources
Special Characteristics Impact modified	Applications Aircraft and Aerospace, Automotive, Electrical and Electronical
Features Creep Resistance	