+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

SYENSQO

ALBIS

Amodel® HFZ A-4133 L

PPA-GF33 Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.01	mm/mm	ASTM D 955
Water Absorption, 24hr	0.26	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12000	MPa	ISO 527
Stress at Break	180	MPa	ISO 527
Strain at Break	1.8	%	ISO 527
Notched Impact Strength (Charpy), +23°C	8.2	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	11000	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	8.4	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	40	kJ/m²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	327	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	310	°C	ISO 75-1/-2
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	0.8	mm	-

Electrical Properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	19	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.006	-	ASTM D 150
Dissipation Factor, 1 MHz	0.016	-	ASTM D 150
Dielectric Constant, 60 Hz	3.9	-	ASTM D 150
Dielectric Constant, 1 MHz	3.7	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1460	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	329 - 343	°C	-
Mold temperature	66 - 93	°C	-
Zone 1	318 - 324	°C	-
Zone 2	327 - 332	°C	-
Injection speed	76 - 102	mm/s	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black, Natural Color

Additives
Lubricants, Release agent

Features
Creep Resistance

Chemical Resistance
General Chemical Resistance

Applications
Automotive, IT / Business Machine, Electrical and Electronical, General Purpose