

Amodel® AS-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
Density, 73°F	1450	kg/m³	ASTM D 792
Water Absorption, 24hr	0.29	%	ASTM D 570

Mechanical Properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Modulus	11700 / 11700	MPa	ASTM D 638
Tensile Strength at Break	200 / 172	MPa	ASTM D 638
Elongation at Break	2.5 / 2.2	%	ASTM D 638
Compressive Strength	179 / 172	MPa	ASTM D 695
Flexural Modulus	11000 / 11000	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	80.1 / 69	J/m	ASTM D 256
Impact Strength (Izod), 1/4 in	960 / -	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	3.2	mm	-
Melting Temperature	327	°C	ASTM D 3418

Electrical Properties	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	20.1 / -	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.004 / -	-	ASTM D 150
Dissipation Factor, 1 MHz	0.012 / -	-	ASTM D 150
Dielectric Constant, 60 Hz	3.8 / -	-	ASTM D 150
Dielectric Constant, 1 MHz	3.6 / -	-	ASTM D 150
Volume Resistivity	>1E15 / -	Ohm*cm	ASTM D 257

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1450 / -	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 135	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	329 - 343	°C	-
Zone 1	318 - 324	°C	-
Zone 2	327 - 332	°C	-

Characteristics
Processing

Injection Molding

Delivery form

Pellets, Black, Natural Color

Additives

Lubricants

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

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