

Amodel® AS-4133 HS

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
Mechanical properties			
	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12600 / -	MPa	ISO 527
Stress at break	211 / -	MPa	ISO 527
Strain at break	2.6 / -	%	ISO 527
Flexural modulus, 23°C	10400 / -	MPa	ISO 178
Charpy impact strength, +23°C	67 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	59 / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9.7 / -	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11700 / 11700	MPa	ASTM D 638
Tensile Strength	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
Flexural Strength	290 / 241	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80 / 69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	960 / -	J/m	ASTM D 256
Thermal properties			
	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	327 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	294 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-
ASTM Data			
Melting Temperature	327	°C	ASTM D 3418
Electrical properties			
	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	20 / 20	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.004 / 0.02	-	ASTM D 150
Dissipation Factor, 1 MHz	0.012 / 0.019	-	ASTM D 150
Dielectric Constant, 60 Hz	3.8 / 4.3	-	ASTM D 150
Dielectric Constant, 1 MHz	3.6 / 3.4	-	ASTM D 150
Volume Resistivity	0 / 5E14	Ohm*cm	ASTM D 257
Optical properties			
	Value	Unit	Test Standard
ASTM Data			
Light Transmittance	20	%	ASTM D 1003
Other properties			
	dry / cond	Unit	Test Standard
Density	1450 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.29	%	ASTM D 570
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

Special Characteristics

Heat stabilized or stable to heat

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

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

Regional Availability

North America, Europe, Asia Pacific