

Amodel® HFFR-4133

PPA-GF33

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Water Absorption, 24hr	0.28	%	ASTM D 570

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12000	MPa	ISO 527
Yield stress	145	MPa	ISO 527
Strain at Break	1.9	%	ISO 527
Flexural Modulus (23°C)	10800	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	7	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	40	kJ/m ²	ISO 180/1U
ASTM Data			
Rockwell Hardness	R 121	-	ASTM D 785

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	300	°C	ISO 75-1/-2
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	0.4	mm	-

Electrical Properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.012	-	ASTM D 150
Dielectric Constant, 1 MHz	3.53	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1460	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.06	%	-
Melt temperature	340 - 350	°C	-
Mold temperature	90 - 110	°C	-
Zone 1	300	°C	-
Zone 2	325	°C	-
Injection speed	76 - 102	mm/s	-

Characteristics
Processing

Injection Molding

Features

Creep Resistance

Delivery form

Pellets, Black, Natural Color

Chemical Resistance

General Chemical Resistance

Special Characteristics

Flame retardant, Halogen-free

Applications

Electrical and Electronical