

**Amodel® A-1133 HS NT**

PPA-GF33

Syensqo

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.004</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.008</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>13400 / -</b>	MPa	ISO 527
Stress at break	<b>233 / -</b>	MPa	ISO 527
Strain at break	<b>2.5 / -</b>	%	ISO 527
Flexural modulus, 23°C	<b>11600 / -</b>	MPa	ISO 178
Flexural modulus	<b>3600 / -</b>	MPa	ISO 178
Flexural modulus temperature	<b>175</b>	°C	-
Charpy impact strength, +23°C	<b>73 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>9.5 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	<b>49 / -</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>8.8 / -</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>13100 / 13100</b>	MPa	ASTM D 638
Tensile Strength	<b>221 / 193</b>	MPa	ASTM D 638
Elongation at Break	<b>2.5 / 2.1</b>	%	ASTM D 638
Compressive Strength	<b>185 / -</b>	MPa	ASTM D 695
Flexural Modulus	<b>11400 / 11400</b>	MPa	ASTM D 790
Flexural Strength	<b>317 / 254</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R125 / -</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>80.1 / 59</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>770 / -</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>313 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>280 / *</b>	°C	ISO 75-1/-2
Burning behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>3.2 / *</b>	mm	-
<b>ASTM Data</b>			
Melting Temperature	<b>313</b>	°C	ASTM D 3418
<b>Electrical properties</b>			
	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>21 / 21</b>	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	<b>0.005 / 0.009</b>	-	ASTM D 150
Dissipation Factor, 1 MHz	<b>0.017 / 0.022</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>4.4 / 4.7</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>4.2 / 4.3</b>	-	ASTM D 150
Volume Resistivity	<b>&gt;1E15 / 0</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>140 / 120</b>	s	ASTM D 495
<b>Other properties</b>			
	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1480 / -</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.23</b>	%	ASTM D 570
<b>Processing Recommendation Injection Molding</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.045</b>	%	-
Melt temperature	<b>321 - 343</b>	°C	-
Mold temperature	<b>135</b>	°C	-
Zone 1	<b>304 - 318</b>	°C	-

Zone 2

**316 - 329**

°C

-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Natural Color

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa