

Amodel® AT-1116 HS

PPA-GF16

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6890 / -	MPa	ISO 527
Stress at break	160 / -	MPa	ISO 527
Strain at break	3.7 / -	%	ISO 527
Flexural modulus, 23°C	6690 / -	MPa	ISO 178
Flexural modulus	4960 / -	MPa	ISO 178
Flexural modulus temperature	100	°C	-
Charpy impact strength, +23°C	86 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	53 / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8 / -	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	6480 / 7100	MPa	ASTM D 638
Tensile Strength	161 / 131	MPa	ASTM D 638
Elongation at Break	3.8 / 2.8	%	ASTM D 638
Compressive Strength	124 / -	MPa	ASTM D 695
Flexural Modulus	6000 / 6210	MPa	ASTM D 790
Flexural Strength	226 / 201	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96.1 / 48	J/m	ASTM D 256
Izod Impact unnotched, 1/4 in	960 / 800	J/m	ASTM D 256

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	258 / *	°C	ISO 75-1/-2
ASTM Data			
Melting Temperature	310	°C	ASTM D 3418

Other properties	dry / cond	Unit	Test Standard
Density	1280 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-
Zone 1	304 - 318	°C	-
Zone 2	316 - 329	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Applications

Automotive, IT / Business Machine, General Purpose, Sports Equipment

Regional Availability

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