

Amodel® AT-1125 HS

PPA-GF25

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.004	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	8890 / -	MPa	ISO 527
Stress at break	190 / -	MPa	ISO 527
Strain at break	2.5 / -	%	ISO 527
Flexural modulus, 23°C	7790 / -	MPa	ISO 178
Charpy impact strength, +23°C	67 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	8.8 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8.8 / -	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	8481 / -	MPa	ASTM D 638
Tensile Strength at Break	174 / -	MPa	ASTM D 638
Elongation at Break	3.2 / -	%	ASTM D 638
Flexural Modulus	7580 / 7580	MPa	ASTM D 790
Izod Impact notched, 1/8 in	120 / 85	J/m	ASTM D 256
Izod Impact unnotched, 1/4 in	1100 / 800	J/m	ASTM D 256

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	311 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	280 / *	°C	ISO 75-1/-2

ASTM Data			
DTUL @ 66 psi	279	°C	ASTM D 648
DTUL @ 264 psi	235	°C	ASTM D 648
Melting Temperature	311	°C	ASTM D 3418

Other properties	dry / cond	Unit	Test Standard
Density	1350 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-
Feed temperature	79	°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, Chemical Process, General Purpose, Sports Equipment

Regional Availability

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