

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
Water Absorption, 24hr	0.2	%	ASTM D 570

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
Impact Strength (Charpy), +23°C	67 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8.8 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	7790 / -	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	8.8 / -	kJ/m²	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
Notched Impact Strength (Izod), 1/8 in	120 / 85	J/m	ASTM D 256
Impact Strength (Izod), 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
ISO Data			
Density	1350 / -	kg/m³	ISO 1183

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

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets, Black, Natural Color

Applications

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

Special Characteristics

Impact modified, Heat aging stabilized