

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
Water Absorption, 24hr	0.2	%	ASTM D 570

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
Impact Strength (Charpy), +23°C	86 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	6690 / -	MPa	ISO 178
Flexural Modulus	4960 / -	MPa	ISO 178
Flexural Modulus Temperature	100	°C	-
Notched Impact Strength (Izod), 23°C	8 / -	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	53 / -	kJ/m²	ISO 180/1U
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
Notched Impact Strength (Izod), 1/8 in	96.1 / 48	J/m	ASTM D 256
Impact Strength (Izod), 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
ISO Data			
Density	1280 / -	kg/m³	ISO 1183

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	-

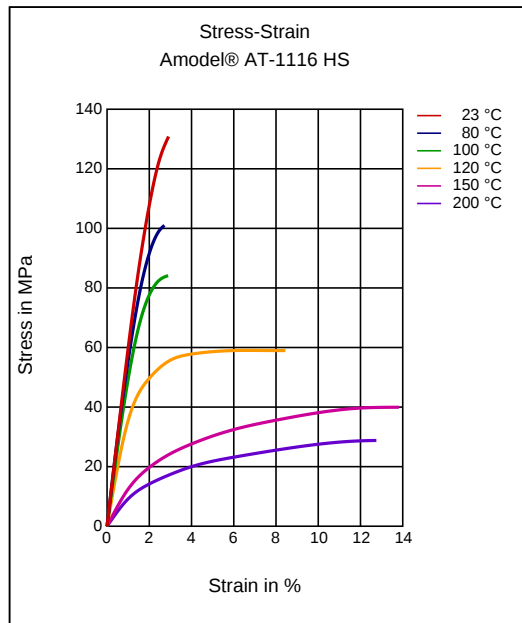
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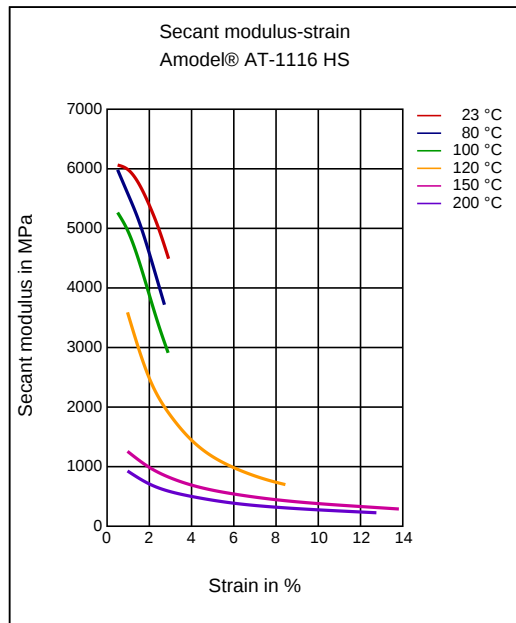
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Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

Impact modified, Heat aging stabilized

Chemical Resistance

General Chemical Resistance

Applications

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