

Amodel® AS-1933 HS

PPA-GF33

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12600	MPa	ISO 527
Stress at Break	212	MPa	ISO 527
Strain at Break	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	76	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	10600	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	9.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11700	MPa	ASTM D 638
Tensile Strength at Break	221	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	10800	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	91	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	312	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	278	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	277	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1450	kg/m ³	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	-

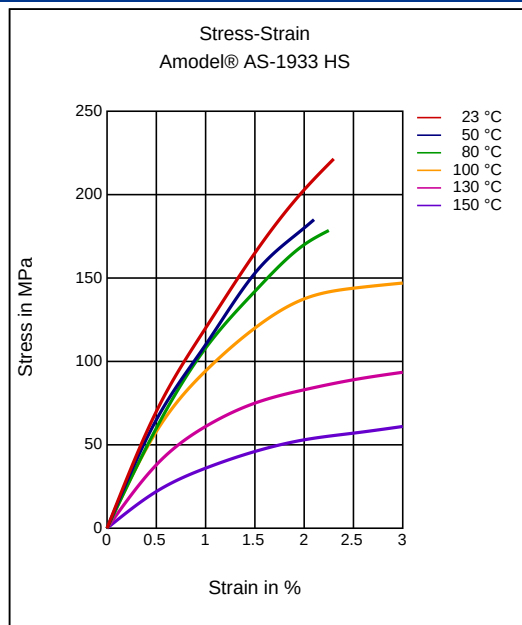
Amodel® AS-1933 HS

PPA-GF33

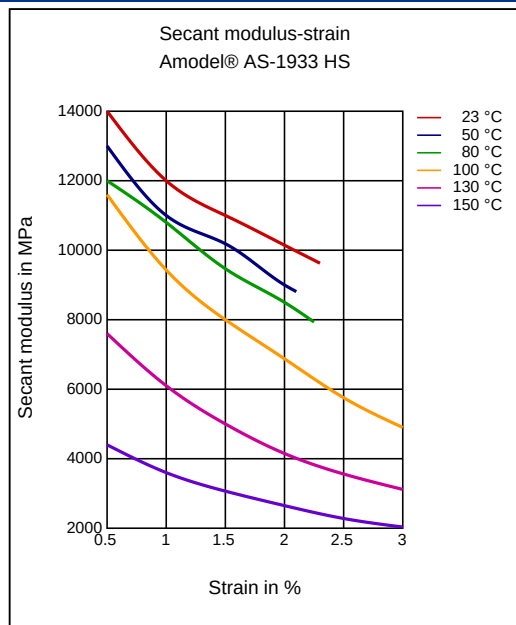
Syensqo

Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Heat aging stabilized

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

Automotive, IT / Business Machine