

Amodel® AS-1566 HS

PPA-(GF+MD)66

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955
Water Absorption, 24hr	0.1	%	ASTM D 570

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	22500 / -	MPa	ISO 527
Stress at Break	200 / -	MPa	ISO 527
Strain at Break	1.4 / -	%	ISO 527
Impact Strength (Charpy), +23°C	34 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	6.1 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	20500 / -	MPa	ISO 178
Flexural Modulus	6410 / -	MPa	ISO 178
Flexural Modulus Temperature	175	°C	-
Notched Impact Strength (Izod), 23°C	6.5 / -	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	44 / -	kJ/m²	ISO 180/1U
ASTM Data			
Tensile Modulus	20000 / 20900	MPa	ASTM D 638
Tensile Strength	- / 175	MPa	ASTM D 638
Tensile Strength at Break	207 / -	MPa	ASTM D 638
Elongation at Break	1.7 / 1.8	%	ASTM D 638
Flexural Modulus	18600 / 19900	MPa	ASTM D 790
Flexural Strength	- / 263	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	64.1 / 53	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	590 / -	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			
Melting Temperature	311	°C	ASTM D 3418

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1840 / -	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-
Feed temperature	79	°C	-
Zone 1	307 - 329	°C	-
Zone 2	307 - 329	°C	-

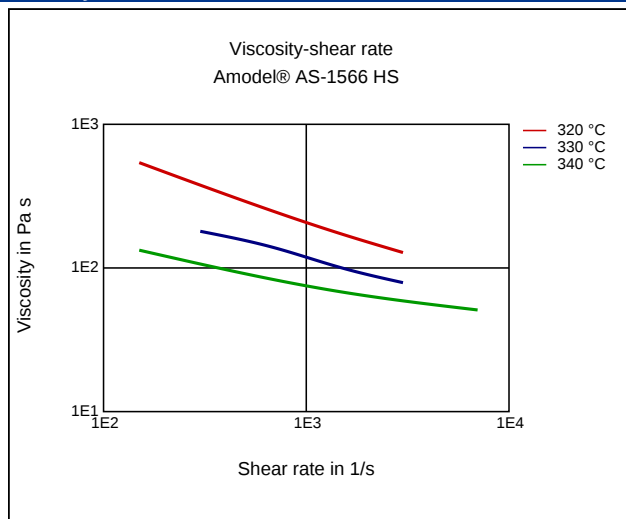
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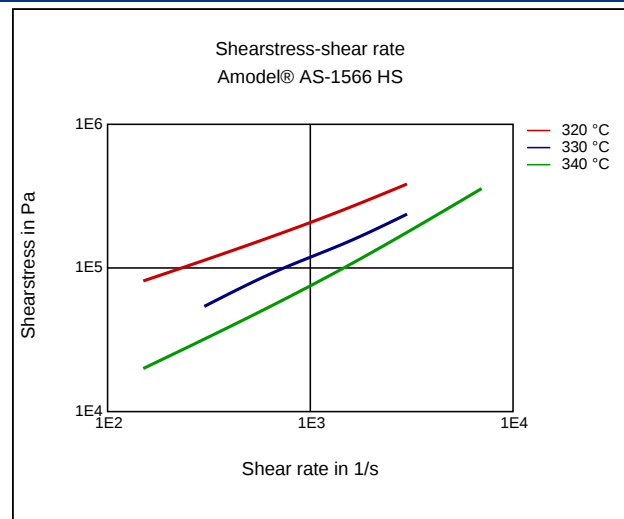
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Diagrams

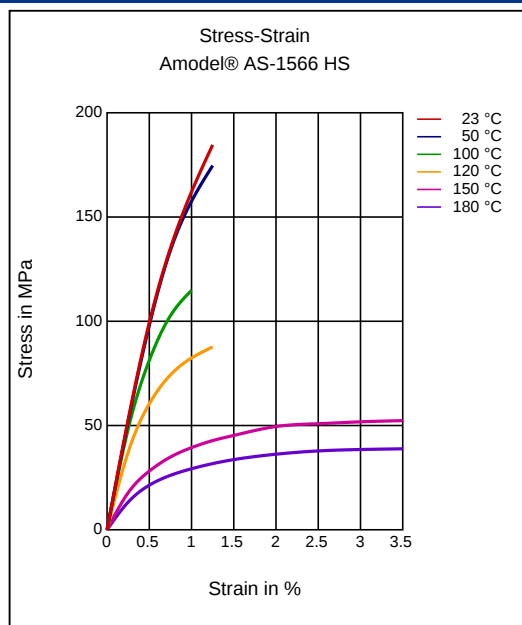
Viscosity-shear rate



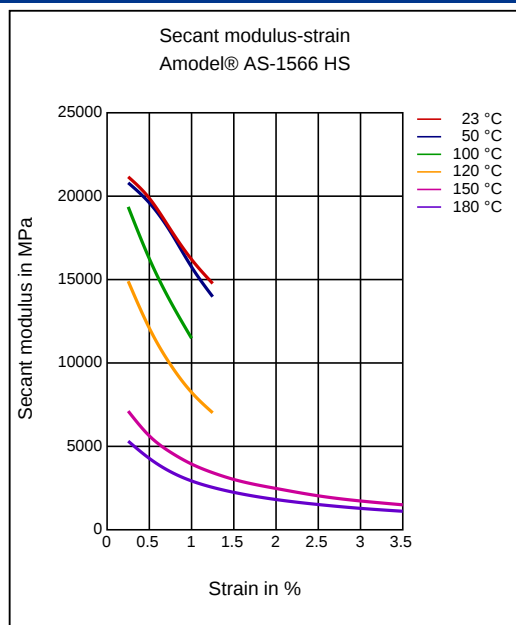
Shearstress-shear rate



Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

Heat aging stabilized

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

Automotive, IT / Business Machine, Electrical and Electronical, General Purpose