

Amodel® AFA-6133 V0 Z
PPA-GF33

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	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	14500 / 14500	MPa	ISO 527
Yield stress	186 / -	MPa	ISO 527
Strain at Break	1.6 / 1.6	%	ISO 527
Impact Strength (Charpy), +23°C	46 / 47	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	14 / 14	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	12600 / 12600	MPa	ISO 178
Flexural Modulus	4620 / -	MPa	ISO 178
Flexural Modulus Temperature	175	°C	-
Notched Impact Strength (Izod), 23°C	8.2 / 8	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	44 / 44	kJ/m²	ISO 180/1U
ASTM Data			
Tensile Modulus	16100 / 13700	MPa	ASTM D 638
Tensile Strength	199 / 166	MPa	ASTM D 638
Elongation at Break	1.7 / 1.7	%	ASTM D 638
Compressive Strength	145 / -	MPa	ASTM D 695
Flexural Modulus	13100 / 13300	MPa	ASTM D 790
Flexural Strength	224 / 229	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	85.4 / 80	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	690 / -	J/m	ASTM D 256

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	310 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	282 / *	°C	ISO 75-1/-2
Burning Behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.8 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	24 / -	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.011 / -	-	ASTM D 150
Dielectric Constant, 1 MHz	4.1 / -	-	ASTM D 150
Surface Resistivity	* / 1E15	Ohm	ASTM D 257
Volume Resistivity	1E15 / -	Ohm*cm	ASTM D 257

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1680 / -	kg/m³	ISO 1183

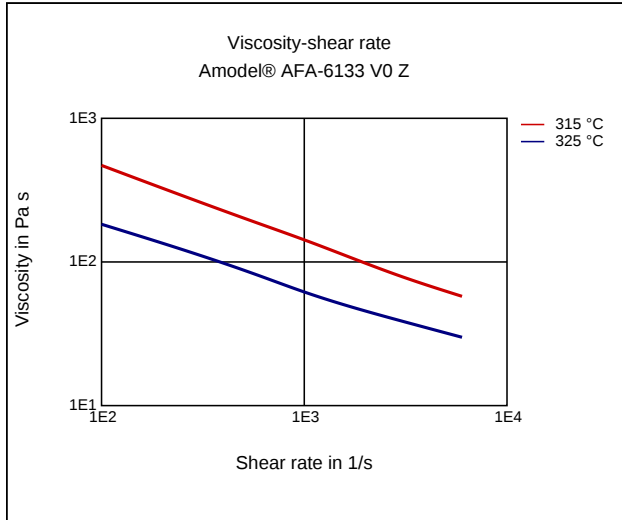
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.06	%	-
Melt temperature	321 - 338	°C	-
Mold temperature	66 - 93	°C	-
Zone 1	327 - 332	°C	-
Zone 2	316 - 324	°C	-
Zone 3	316 - 324	°C	-
Injection speed	76 - 102	mm/s	-

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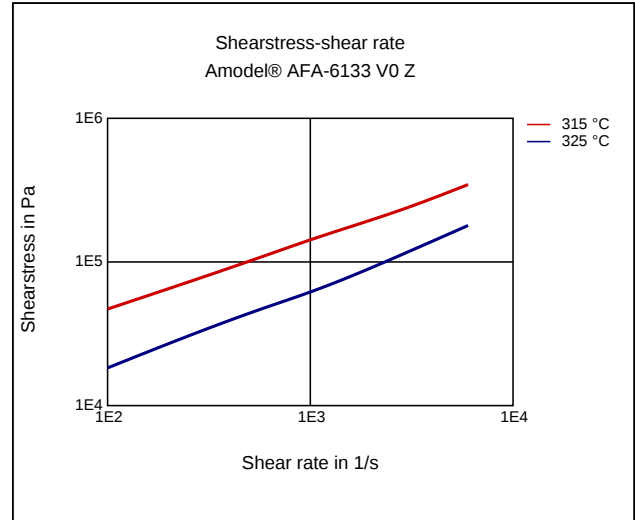
Syensqo

Diagrams

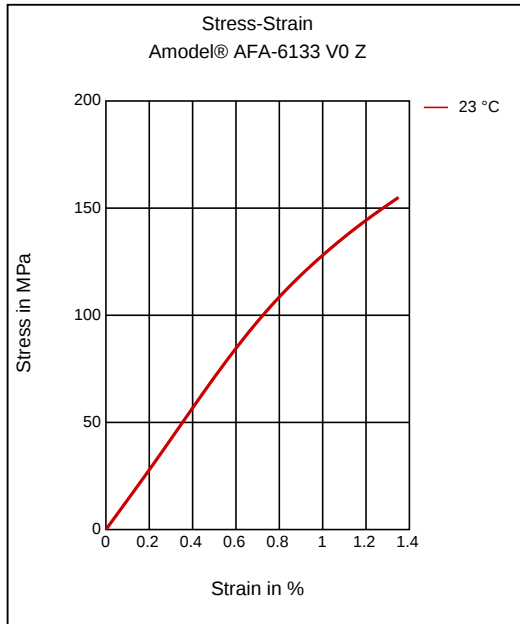
Viscosity-shear rate



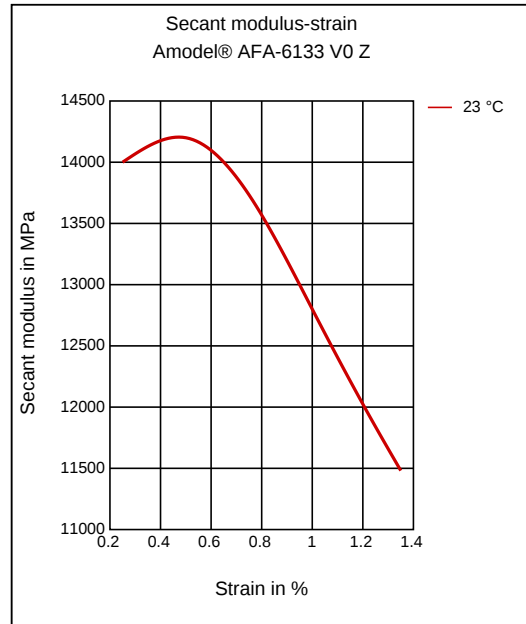
Shearstress-shear rate



Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Flame retardant

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical