

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

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
Flexural modulus, 23°C	20500 / -	MPa	ISO 178
Flexural modulus	6410 / -	MPa	ISO 178
Flexural modulus temperature	175	°C	-
Charpy impact strength, +23°C	34 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.1 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	44 / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6.5 / -	kJ/m ²	ISO 180/1A

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
Izod Impact notched, 1/8 in	64.1 / 53	J/m	ASTM D 256
Izod Impact unnotched, 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
Density	1840 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570

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	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Applications

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

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Features

Creep Resistance

Regional Availability

North America, Europe, Asia Pacific