

Amodel® AS-1945 HS

PPA-GF45

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

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15100	MPa	ISO 527
Stress at Break	244	MPa	ISO 527
Notched Impact Strength (Charpy), +23°C	13	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	12600	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	15200	MPa	ASTM D 638
Tensile Strength at Break	252	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	13800	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	120	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)	282	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	282	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1570	kg/m ³	ISO 1183

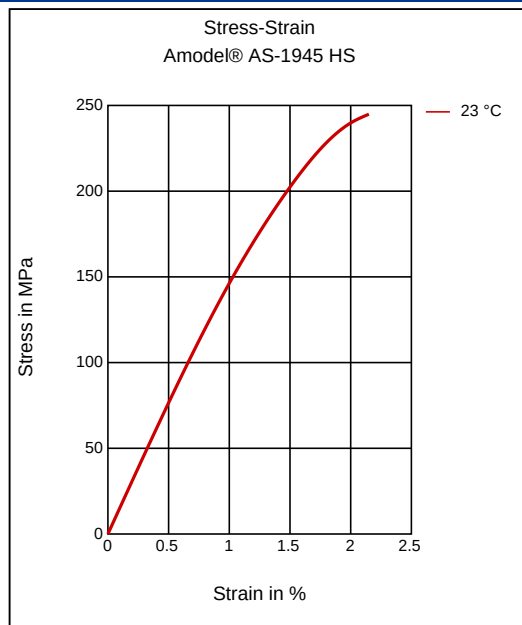
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-
Feed temperature	79	°C	-
Zone 1	304 - 318	°C	-
Zone 2	316 - 329	°C	-

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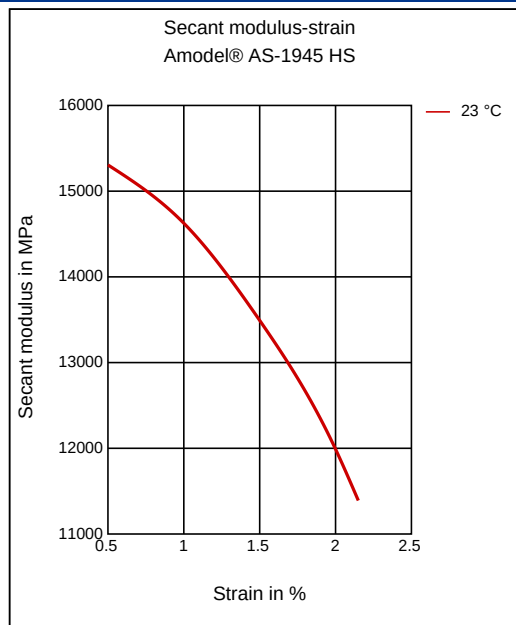
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Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

Heat aging stabilized

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

Automotive, IT / Business Machine