

Amodel® A-1933 HSL

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	0.01	mm/mm	ASTM D 955
Water Absorption, 24hr	0.19	%	ASTM D 570

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11500	MPa	ISO 527
Yield stress	195	MPa	ISO 527
Strain at Break	1.8	%	ISO 527
Notched Impact Strength (Charpy), +23 °C	8.2	kJ/m ²	ISO 179/1eA
Flexural Modulus (23 °C)	10300	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	8.1	kJ/m ²	ISO 180/1A

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10 °C/min)	323	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	295	°C	ISO 75-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1490	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	331 - 352	°C	-
Mold temperature	150	°C	-
Zone 1	313 - 330	°C	-
Zone 2	326 - 339	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Lubricants, Release agent

Special Characteristics

Heat aging stabilized

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance

Applications

Automotive