

Amodel® A-8940 HS
PPA-GF40

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0034	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0068	mm/mm	ASTM D 955
Water Absorption, 24hr	0.15	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15100	MPa	ISO 527
Stress at Break	243	MPa	ISO 527
Strain at Break	2	%	ISO 527
Impact Strength (Charpy), +23°C	60	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	59	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.7	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9.5	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	14500	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	10	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	59	kJ/m²	ISO 180/1U

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)	293	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	311	°C	ISO 75-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1570	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 - 343	°C	-
Mold temperature	170	°C	-
Zone 1	316 - 329	°C	-
Zone 2	316 - 329	°C	-
Zone 3	324 - 335	°C	-

Characteristics
Processing

Injection Molding

Features

Creep Resistance

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Special Characteristics

Heat aging stabilized