

**Amodel® A-8940 HS**

PPA-GF40

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.0034</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0068</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	<b>15100</b>	MPa	ISO 527
Stress at break	<b>243</b>	MPa	ISO 527
Strain at break	<b>2</b>	%	ISO 527
Flexural modulus, 23°C	<b>14500</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>60</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>59</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>9.7</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>9.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	<b>59</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	<b>10</b>	kJ/m <sup>2</sup>	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>323</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>293</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>311</b>	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	<b>1570</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.15</b>	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.06</b>	%	-
Melt temperature	<b>321 - 343</b>	°C	-
Mold temperature	<b>170</b>	°C	-
Zone 1	<b>316 - 329</b>	°C	-
Zone 2	<b>316 - 329</b>	°C	-
Zone 3	<b>324 - 335</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa