

Ixef® HC-1022
PARA-GF50

Syensqo

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	19500 / 19500	MPa	ISO 527
Stress at Break	280 / 260	MPa	ISO 527
Strain at Break	1.9 / 2.2	%	ISO 527
Flexural Modulus (23°C)	18500 / -	MPa	ISO 178
ASTM Data			
Notched Impact Strength (Izod), 1/8 in	110 / -	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	850 / -	J/m	ASTM D 256

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	230 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1640 / -	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	0.5 - 1.5	h	-
Melt temperature	280	°C	-
Mold temperature	120 - 140	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 290	°C	-
Nozzle temperature	260 - 290	°C	-

Characteristics
Processing

Injection Molding

Delivery form

Pellets, Black, Natural Color

Special Characteristics

Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance, Oxidation Resistance, Radiation Resistance

Certifications

Medical, Biocompatibility ISO 10993, Device Master File

Applications

General Purpose, Medical