Ixef® HC-1022

PARA-GF50 Syensqo

Processing/Physical Characteristics	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			
Izod Impact notched, 1/8 in	**110 / -**	J/m	ASTM D 256
Izod Impact unnotched, 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
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 Grade, Biocompatibility ISO 10993, Device Master File

Applications
General Purpose, Medical

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