KetaSpire® KT-890 NL

PEEK — Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**85**	g/10min	ASTM D 1238
Temperature	**385**	°C	-
Load	**2.16**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**3900**	MPa	ASTM D 638
Tensile Strength	**105**	MPa	ASTM D 638
Elongation at Yield	**5.9**	%	ASTM D 638
Elongation at Break	**15**	%	ASTM D 638
Flexural Modulus	**4100**	MPa	ASTM D 790
Flexural Strength	**163**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**48**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	**160**[ann.]	°C	ASTM D 648
Melting Temperature	**345**	°C	ASTM D 3418
Glass Transition Temperature	**147**	°C	ASTM E 1356
Thermal Conductivity, solid state	**0.036**	W/(m K)	ASTM C 177

ann.: annealed

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.1**	%	ASTM D 570
Density	**1300**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4**	h	-
Mold temperature	**175 - 205**	°C	-
Zone 1	**355**	°C	-
Zone 2	**365**	°C	-
Zone 3	**370**	°C	-
Nozzle temperature	**375**	°C	-

Characteristics

Processing
Injection Molding, Fiber Extrusion, Wire/Cable Extrusion

Delivery form
Powder, Natural Color

Special Characteristics
Flame retardant, High impact or impact modified, Heat stabilized or stable to heat, Sterilizable, Ethylene Oxide (EtO) Sterilization, Steam sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

Features
Ductile, Fatigue Resistance

Chemical Resistance
Acid Resistance, Alkali Resistance, General Chemical Resistance, Oil Resistance

Certifications
Medical Grade, Device Master File

Applications
Aircraft and Aerospace, Chemical Process, Electrical and Electronical, Medical

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