

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.012	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.014	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	3850	MPa	ISO 527
Yield stress	95	MPa	ISO 527
Yield strain	4.8	%	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus, 23°C	3620	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	7.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3600	MPa	ASTM D 638
Tensile Strength	96	MPa	ASTM D 638
Elongation at Yield	5.2	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Compressive Strength	121	MPa	ASTM D 695
Flexural Modulus	3900	MPa	ASTM D 790
Flexural Strength	152	MPa	ASTM D 790
Rockwell Hardness	M 97	-	ASTM D 785
Shore D Hardness	88	-	ASTM D 2240
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Thermal properties			
ASTM Data			
Melting Temperature	340	°C	ASTM D 3418
Glass Transition Temperature	150	°C	ASTM E 1356
Electrical properties			
ASTM Data			
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
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, Profile Extrusion, Coating

Chemical Resistance

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

KetaSpire® KT-851

PEEK

Syensqo

Delivery form

Pellets

Additives

Lubricants

Special Characteristics

Flame retardant, High impact or impact modified, Heat stabilized or stable to heat

Features

Ductile, Fatigue Resistance

Certifications

Medical Grade, Biocompatibility ISO 10993

Applications

Electrical and Electronical

Regional Availability

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