

KetaSpire® KT-820 SL30
(PEEK+PTFE)-CD

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2.4	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.016	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	14400	MPa	ISO 527
Yield stress	150	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus, 23°C	14900	MPa	ISO 178
Izod impact strength, +23°C	34	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	11000	MPa	ASTM D 638
Tensile Strength	133	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Compressive Strength	110	MPa	ASTM D 695
Flexural Modulus	10500	MPa	ASTM D 790
Flexural Strength	221	MPa	ASTM D 790
Rockwell Hardness	M 80	-	ASTM D 785
Shore D Hardness	86	-	ASTM D 2240
Izod Impact notched, 1/8 in	69.4	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
DTUL @ 264 psi	291	°C	ASTM D 648
Melting Temperature	342	°C	ASTM D 3418
Glass Transition Temperature	152	°C	ASTM E 1356

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1450	kg/m ³	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	366	°C	-
Zone 2	370	°C	-
Zone 3	375	°C	-
Nozzle temperature	380	°C	-

Characteristics

Processing

Injection Molding, Pipe/Tube Extrusion, Profile Extrusion, Sheet Extrusion

Features

Fatigue Resistance, Tribological Grade

Delivery form

Pellets, Black

Additives

Lubricants

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Chemical Resistance

Acid Resistance, Alkali Resistance, General Chemical Resistance

Applications

Aircraft and Aerospace, Chemical Process, Electrical and
Electronical

Regional Availability

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