

KetaSpire® KT-820 SL45
(PEEK+PTFE)-CF

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2	g/10min	ASTM D 1238
Temperature	400	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.001	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.014	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	25300	MPa	ISO 527
Yield stress	197	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus, 23°C	24100	MPa	ISO 178
ASTM Data			
Tensile Modulus	18300	MPa	ASTM D 638
Tensile Strength	161	MPa	ASTM D 638
Elongation at Yield	1.5	%	ASTM D 638
Compressive Strength	127	MPa	ASTM D 695
Flexural Modulus	16600	MPa	ASTM D 790
Flexural Strength	265	MPa	ASTM D 790
Rockwell Hardness	M 90	-	ASTM D 785
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Melting Temperature	342	°C	ASTM D 3418
Glass Transition Temperature	152	°C	ASTM E 1356

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.03	%	ASTM D 570
Density	1500	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	4	h	-
Mold temperature	177 - 204	°C	-
Zone 1	366	°C	-
Zone 2	371	°C	-
Zone 3	377	°C	-
Nozzle temperature	382	°C	-

Characteristics

Processing

Injection Molding, Profile Extrusion

Delivery form

Pellets, Black

Additives

Lubricants

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Features

Fatigue Resistance

Chemical Resistance

General Chemical Resistance

Applications

Automotive

Regional Availability

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