

AvaSpire® AV-722 SL30

(PAEK+PTFE)-(CF+CD)

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	1.9	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.018	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15700	MPa	ISO 527
Yield stress	151	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus, 23°C	13900	MPa	ISO 178
Izod impact strength, +23°C	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	7.4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	12400	MPa	ASTM D 638
Tensile Strength	136	MPa	ASTM D 638
Elongation at Break	2.1	%	ASTM D 638
Compressive Strength	107	MPa	ASTM D 695
Flexural Modulus	10200	MPa	ASTM D 790
Flexural Strength	213	MPa	ASTM D 790
Rockwell Hardness	M 82	-	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	340	°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	1460	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	4	h	-
Melt temperature	366 - 388	°C	-
Mold temperature	149 - 177	°C	-
Zone 1	354	°C	-
Zone 2	366	°C	-
Zone 3	371	°C	-
Nozzle temperature	374	°C	-

Characteristics**Processing**

Injection Molding, Profile Extrusion

Delivery form

Pellets, Black

Additives

Lubricants

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Oil Resistance

Applications

Automotive

Regional Availability

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