

**AvaSpire® AV-742 SL30**

(PAEK+PTFE)-(CF+CD)

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	2.5	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	0.017	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15500	MPa	ISO 527
Yield stress	156	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus, 23°C	13200	MPa	ISO 178
Izod impact strength, +23°C	28	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	5.8	kJ/m <sup>2</sup>	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	13000	MPa	ASTM D 638
Tensile Strength	143	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Compressive Strength	121	MPa	ASTM D 695
Flexural Modulus	10400	MPa	ASTM D 790
Flexural Strength	211	MPa	ASTM D 790
Rockwell Hardness	M 87	-	ASTM D 785
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melting Temperature	343	°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	1470	kg/m <sup>3</sup>	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

**Chemical Resistance**

General Chemical Resistance

**Applications**

Automotive

**Regional Availability**

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

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat