AvaSpire® AV-481 BG 15

PAEK Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**55**	g/10min	ASTM D 1238
Temperature	**400**	°C	-
Load	**2.16**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**3200**	MPa	ASTM D 638
Tensile Strength	**97**	MPa	ASTM D 638
Elongation at Yield	**6.3**	%	ASTM D 638
Elongation at Break	**15**	%	ASTM D 638
Flexural Modulus	**3300**	MPa	ASTM D 790
Flexural Strength	**141**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**64**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.3**	%	ASTM D 570
Density	**1340**	kg/m³	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	**355**	°C	-
Zone 2	**365**	°C	-
Zone 3	**370**	°C	-
Nozzle temperature	**375**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat

Features
Ductile, Fatigue Resistance

Chemical Resistance
Environmental Stress Crack Resistance, Oxidation Resistance

Applications
Aircraft and Aerospace, Automotive, Electrical and Electronical

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