AvaSpire® AV-630

PAEK Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**7**	g/10min	ASTM D 1238
Temperature	**400**	°C	-
Load	**2.16**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3400**	MPa	ISO 527
Yield stress	**89**	MPa	ISO 527
Yield strain	**5.4**	%	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**3300**	MPa	ISO 178
ASTM Data			
Tensile Modulus	**3300**	MPa	ASTM D 638
Tensile Strength	**92**	MPa	ASTM D 638
Elongation at Yield	**6**	%	ASTM D 638
Elongation at Break	**65**	%	ASTM D 638
Compressive Strength	**110**	MPa	ASTM D 695
Flexural Modulus	**3200**	MPa	ASTM D 790
Flexural Strength	**127**	MPa	ASTM D 790
Rockwell Hardness	**M 92**	-	ASTM D 785
Izod Impact notched, 1/8 in	**91**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Melting Temperature	**340**	°C	ASTM D 3418
Glass Transition Temperature	**158**	°C	ASTM E 1356
Limiting Oxygen Index	**38**	%	ASTM D 2863

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**>1E15**	Ohm	ASTM D 257
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.2**	%	ASTM D 570
Density	**1300**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**149**	°C	-
Pre-drying - Time	**4**	h	-

Characteristics

Processing
Injection Molding, Fiber Extrusion, Film Extrusion, Profile Extrusion, Wire/Cable Extrusion, Blow Molding, Thermoforming

Delivery form
Pellets, Natural Color

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

Chemical Resistance
General Chemical Resistance

Applications
Aircraft and Aerospace, Electrical and Electronical

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

Features
Ductile, Fatigue Resistance