

Amodel® Supreme AS-9950 HS BK 324

PPA-GF50

Syensqo

Electrically Insulating, High Glycol Resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955
Water Absorption, 24hr	0.12	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	16900	MPa	ISO 527
Stress at Break	229	MPa	ISO 527
Strain at Break	2.2	%	ISO 527
Flexural Modulus (23°C)	16600	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	11	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	66	kJ/m ²	ISO 180/1U
ASTM Data			
Tensile Modulus	17700	MPa	ASTM D 638
Tensile Strength at Break	259	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	16700	MPa	ASTM D 790

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	322	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	294	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	11	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	53	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	16	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.012	-	ASTM D 150
Dielectric Constant, 1 MHz	4.4	-	ASTM D 150
Surface Resistivity	8.1E16	Ohm	ASTM D 257
Volume Resistivity	1.1E16	Ohm*cm	ASTM D 257

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1620	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.06	%	-
Melt temperature	330 - 350	°C	-
Mold temperature	180	°C	-
Zone 1	313 - 330	°C	-
Zone 2	313 - 330	°C	-
Zone 3	326 - 339	°C	-

Characteristics

Processing	Features
Injection Molding	Creep Resistance
Delivery form	Chemical Resistance
Pellets, Black	General Chemical Resistance, Hydrolysis

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Additives

Lubricants, Release agent

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Special Characteristics

Heat aging stabilized