

Amodel® Supreme A-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	0.009	mm/mm	ASTM D 955
Water Absorption, 24hr	0.12	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18100	MPa	ISO 527
Stress at Break	221	MPa	ISO 527
Strain at Break	1.7	%	ISO 527
Flexural Modulus (23°C)	17400	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	11	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	42	kJ/m²	ISO 180/1U
ASTM Data			
Tensile Modulus	19000	MPa	ASTM D 638
Tensile Strength at Break	245	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	17600	MPa	ASTM D 790

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	324	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	297	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	13	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	57	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	4.5	-	ASTM D 150
Surface Resistivity	2.8E16	Ohm	ASTM D 257
Volume Resistivity	1.5E16	Ohm*cm	ASTM D 257

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1650	kg/m³	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	331 - 352	°C	-
Mold temperature	180	°C	-
Zone 1	313 - 330	°C	-
Zone 2	313 - 330	°C	-
Zone 3	326 - 339	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Features

Creep Resistance

Chemical Resistance

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