

Product Texts

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

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
Izod impact strength, +23°C	66	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	11	kJ/m ²	ISO 180/1A
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
Density	1620	kg/m ³	ISO 1183
Water Absorption, 24hr	0.12	%	ASTM D 570

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**

Injection Molding

Features

Creep Resistance

Amodel® Supreme AS-9950 HS BK 324

PPA-GF50

Syensqo

Delivery form

Pellets, Black

Additives

Lubricants, Release agent

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability

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