

Amodel® Supreme AS-9933 HS BK 324

PPA-GF33

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	0.15	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11400	MPa	ISO 527
Stress at Break	198	MPa	ISO 527
Strain at Break	2.4	%	ISO 527
Impact Strength (Charpy), +23°C	57	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	7.7	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	10900	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	8.2	kJ/m ²	ISO 180/1A
Impact Strength (Izod), 23°C	41	kJ/m ²	ISO 180/1U
ASTM Data			
Tensile Modulus	11800	MPa	ASTM D 638
Tensile Strength at Break	203	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	10600	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	72	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	690	J/m	ASTM D 256

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)	290	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	309	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	15	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	60	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	30	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.014	-	ASTM D 150
Dielectric Constant, 1 MHz	3.9	-	ASTM D 150
Surface Resistivity	3.4E16	Ohm	ASTM D 257
Volume Resistivity	1.4E16	Ohm*cm	ASTM D 257

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1460	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

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Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Lubricants, Release agent

Special Characteristics

Heat aging stabilized

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance, Hydrolysis

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical