

Amodel® AE-1133 BK 324

PPA-GF33

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955
Water Absorption, 24hr	0.21	%	ASTM D 570

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13400	MPa	ISO 527
Stress at Break	233	MPa	ISO 527
Strain at Break	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	73	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.5	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	11600	MPa	ISO 178
Flexural Modulus	9800	MPa	ISO 178
Flexural Modulus Temperature	100	°C	-
Flexural strength	319	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	8.8	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	49	kJ/m²	ISO 180/1U
ASTM Data			
Tensile Modulus	13100	MPa	ASTM D 638
Tensile Strength	221	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Compressive Strength	185	MPa	ASTM D 695
Flexural Modulus	11400	MPa	ASTM D 790
Flexural Strength	317	MPa	ASTM D 790
Rockwell Hardness	R 125	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	80	J/m	ASTM D 256
Impact Strength (Izod), 1/8 in	770	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	313	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	24	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	55	E-6/K	ASTM D 696
DTUL @ 66 psi	297 ^[ann.]	°C	ASTM D 648
DTUL @ 264 psi	285 ^[ann.]	°C	ASTM D 648
Melting Temperature	313	°C	ASTM D 3418

ann.: annealed

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	21	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.005	-	ASTM D 150
Dissipation Factor, 1 MHz	0.017	-	ASTM D 150
Dielectric Constant, 60 Hz	4.4	-	ASTM D 150
Dielectric Constant, 1 MHz	4.2	-	ASTM D 150
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Arc Resistance	140	s	ASTM D 495

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1480	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-

Amodel® AE-1133 BK 324

PPA-GF33

Syensqo

Processing humidity	≤0.045	%	-
Melt temperature	321 - 343	°C	-
Mold temperature	135	°C	-
Zone 1	304 - 318	°C	-
Zone 2	316 - 329	°C	-

Characteristics

Processing

Injection Molding

Features

Creep Resistance

Delivery form

Pellets, Black

Chemical Resistance

General Chemical Resistance

Special Characteristics

Heat aging stabilized

Applications

Automotive, Electrical and Electronical