

**Amodel® A-4145 HH BK324**

PPA-GF45

Syensqo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.008	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	16400 / -	MPa	ISO 527
Stress at break	225 / -	MPa	ISO 527
Strain at break	1.8 / -	%	ISO 527
Flexural modulus, 23°C	14500 / -	MPa	ISO 178
Charpy impact strength, +23°C	80 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	65 / -	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	10 / -	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Compressive Strength	179 / 172	MPa	ASTM D 695
<b>Thermal properties</b>			
	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	327 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	297 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-
<b>ASTM Data</b>			
Melting Temperature	327	°C	ASTM D 3418
<b>Electrical properties</b>			
	dry / cond	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	20 / 20	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.004 / 0.02	-	ASTM D 150
Dissipation Factor, 1 MHz	0.012 / 0.019	-	ASTM D 150
Dielectric Constant, 60 Hz	3.8 / 4.3	-	ASTM D 150
Dielectric Constant, 1 MHz	3.6 / 3.4	-	ASTM D 150
Volume Resistivity	0 / 5E14	Ohm*cm	ASTM D 257
<b>Other properties</b>			
	dry / cond	Unit	Test Standard
Density	1570 / -	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.37	%	ASTM D 570
<b>Processing Recommendation Injection Molding</b>			
	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	330 - 335	°C	-
Mold temperature	66 - 93	°C	-
Zone 1	318 - 324	°C	-
Zone 2	327 - 332	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Black

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance, Oxidation Resistance

**Additives**

Lubricants, Release agent

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

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