

Amodel® A-4145 HH

PPA-GF45

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
Mechanical properties			
	dry / cond	Unit	Test Standard
ISO Data			
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 ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	65 / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10 / -	kJ/m ²	ISO 180/1A
ASTM Data			
Compressive Strength	179 / 172	MPa	ASTM D 695
Thermal properties			
	dry / cond	Unit	Test Standard
ISO Data			
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	-
ASTM Data			
Melting Temperature	327	°C	ASTM D 3418
Electrical properties			
	dry / cond	Unit	Test Standard
ASTM Data			
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
Other properties			
	dry / cond	Unit	Test Standard
Density	1570 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.37	%	ASTM D 570
Processing Recommendation Injection Molding			
	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

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