

Product Texts

33% Glass Reinforced

ISO 1043 PA6-GF33

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
^[C] Density of melt	1200	kg/m ³	-
^[C] Thermal conductivity of melt	0.29	W/(m K)	-
^[C] Spec. heat capacity of melt	2140	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.13E-7	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10500 / 6600	MPa	ISO 527
^[C] Stress at break	185 / 110	MPa	ISO 527
^[C] Strain at break	3.5 / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	95 / 110	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	75 / 70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13 / 30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	12 / 11	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	210 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.5 / 20	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.3 / 5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	50 / 3000	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	150 / 1200	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	30 / 25	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	6.3 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.9 / *	%	Sim. to ISO 62
^[C] Density	1390 / *	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Akulon® K224-G6U

PA6-GF33

Envalior

Delivery form

Pellets

Regional Availability

North America, Europe

Additives

Lubricants, Release agent

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)