

Product Texts

High Viscosity

ISO 1043 PA6

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	960	kg/m ³	-
^[C] Thermal conductivity of melt	0.23	W/(m K)	-
^[C] Spec. heat capacity of melt	2680	J/(kg K)	-
^[C] Eff. thermal diffusivity	8.82E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3300 / -	MPa	ISO 527
^[C] Yield stress	85 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	ISO 527
^[C] Nominal strain at break	25 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4 / -	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	60 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	160 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	140 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.9 / 14	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.4 / 4.5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	110 / 3000	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	220 / 1200	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	27 / 20	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	10 / *	%	Sim. to ISO 62
^[C] Humidity absorption	3 / *	%	Sim. to ISO 62
^[C] Density	1130 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Akulon® F232-D

PA6

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Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	214 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Additives

Release agent

Delivery form

Pellets

Regional Availability

Europe

Other text information**Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)