

Product Texts

30% Glass Reinforced, High Flow, Halogen free and free of red phosphorous

ISO 1043 PA66-GF30 FR(40)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	30 / *	cm ³ /10min	ISO 1133
Temperature	270 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11000 / 8600	MPa	ISO 527
^[C] Stress at break	155 / 120	MPa	ISO 527
^[C] Strain at break	3 / 3.4	%	ISO 527
^[C] Charpy impact strength, +23°C	68 / 62	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	50 / 48	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	60 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	247 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	21 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	67 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	V-0 / *	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	4.2 / 7.3	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.9 / 4.3	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	110 / 110	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	150 / 490	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / 5E12	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 3E13	Ohm	IEC 62631-3-2
^[C] Electric strength	41 / 38	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	4.9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.6 / *	%	Sim. to ISO 62
^[C] Density	1430 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Akulon® SG-KGS6/HV

PA66-GF30 FR(40)

Envalior

Characteristics

Special Characteristics

Flame retardant, Halogen-free, Phosphorus-free

Regional Availability

Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)