Akulon® K224-LG6 /E

PA6-GF30 Envalior

Product Texts

30% Glass Reinforced, Injection Molding, Improved UV-stability

ISO 1043 PA6-GF30

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**40 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
[C] Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.1 / ***	%	ISO 294-4, 2577
[C] Density of melt	**1150**	kg/m³	-
[C] Thermal conductivity of melt	**0.27**	W/(m K)	-
[C] Spec. heat capacity of melt	**2110**	J/(kg K)	-
[C] Eff. thermal diffusivity	**1.12E-7**	m²/s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9800 / 6000**	MPa	ISO 527
[C] Stress at break	**195 / 110**	MPa	ISO 527
[C] Strain at break	**3.6 / 7**	%	ISO 527
[C] Charpy impact strength, +23°C	**90 / 110**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**75 / 75**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**12 / 25**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**11 / 11**	kJ/m²	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	**1E12 / 1E10**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E13**	Ohm	IEC 62631-3-2
[C] Electric strength	**30 / 25**	kV/mm	IEC 60243-1
[C] Comparative tracking index	*** / 500**	-	IEC 60112

[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	**1350 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability
North America, Europe, Asia Pacific

Other text information

Injection molding
Injection Molding Recommendations
Steel recommendations for molds screws and barrels
Trouble shooting guideline for injection molding