Akulon® Ultraflow K-FHG6/B

PA6-GF30 Envalior

Product Texts

30% Glass Reinforced, Heat Stabilized, High Flow, Improved Processing

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	**2.16 / ***	kg	-
[C] Molding shrinkage, parallel	**0.3 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.1 / ***	%	ISO 294-4, 2577
[C] Density of melt	**1120**	kg/m³	-
[C] Thermal conductivity of melt	**0.27**	W/(m K)	-
[C] Spec. heat capacity of melt	**2250**	J/(kg K)	-
[C] Eff. thermal diffusivity	**1.08E-7**	m²/s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9350 / 5700**	MPa	ISO 527
[C] Stress at break	**160 / 105**	MPa	ISO 527
[C] Strain at break	**3 / 7**	%	ISO 527
[C] Charpy impact strength, +23°C	**85 / 90**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**65 / 65**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**12 / 22**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**10 / 10**	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	**200 / ***	°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 / 14**	-	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 / 1E12**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E13**	Ohm	IEC 62631-3-2
[C] Comparative tracking index	*** / 500**	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**6 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.8 / ***	%	Sim. to ISO 62
[C] Density	**1350 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

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Processing	Special Characteristics
Injection Molding	Heat stabilized or stable to heat
Delivery form	**Regional Availability**
Pellets	North America, Asia Pacific

Other text information

Injection molding

Injection Molding Recommendations