Akulon® S223-HPG5

PA66-I-GF25 Envalior

Product Texts

25% Glass Reinforced, Impact Modified, Heat Stabilized, Resistant to Oil and Grease

ISO 1043 PA66-I-GF25

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**7500 / 6000**	MPa	ISO 527
[C] Stress at break	**150 / 110**	MPa	ISO 527
[C] Strain at break	**4 / 5.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**85 / 100**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**50 / 50**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**11 / 17**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**9 / 9**	kJ/m²	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] Temp. of deflection under load, 1.80 MPa	**245 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**260 / ***	°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	**80 / ***	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.7 / 11**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.3 / 4.6**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**110 / 1400**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**180 / 1000**	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	**35 / 30**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**500 / 500**	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**5.5 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.6 / ***	%	Sim. to ISO 62
[C] Density	**1290 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	**140 / ***	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Chemical Resistance

Grease Resistance, Oil Resistance

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Additives
Release agent

Regional Availability
Europe, Asia Pacific

Other text information

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

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