

Product Texts

Product-nomenclature: ISO 16396-PA6,GF25,M1HR,S14-090

Markets

Automotive

Air intake systems, Hydraulic systems, Automotive electr. and electronics, lighting, Interior

Electricals & Electronics

Electrical appliances, Electrical equipment

Industry & Consumer goods

Housewares, Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577
^[C] Density of melt	1170	kg/m ³	-
^[C] Thermal conductivity of melt	0.25	W/(m K)	-
^[C] Spec. heat capacity of melt	2250	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.5E-8	m ² /s	-
^[C] Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	8500 / 4800	MPa	ISO 527
^[C] Stress at break	165 / 90	MPa	ISO 527
^[C] Strain at break	3 / 8	%	ISO 527
^[C] Charpy impact strength, +23°C	85 / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	70 / 70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 9	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	205 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	125 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	30 / 29	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 575	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2 / *	%	Sim. to ISO 62
^[C] Density	1310 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Grilon BG-25 S natural

PA6-GF25

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	300	mm/s	ISO 294
Injection Molding, pressure at hold	75	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa