

Product Texts

Product-nomenclature: ISO 16396-PA6,(MD GF)65X,M1F2HR,S14-110

Product Attributes

Flame retardant

Markets

Automotive

Automotive electr. and electronics, lighting, Interior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting

Industry & Consumer goods

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

Approvals

Burning Behaviour

UL V0

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
^[C] Density of melt	1500	kg/m ³	-
^[C] Thermal conductivity of melt	0.32	W/(m K)	-
^[C] Spec. heat capacity of melt	1800	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.19E-7	m ² /s	-
^[C] Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11500 / 7100	MPa	ISO 527
^[C] Stress at break	120 / 90	MPa	ISO 527
^[C] Strain at break	1 / 3	%	ISO 527
^[C] Charpy impact strength, +23°C	25 / 25	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	15 / 15	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	3 / 3	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	3 / 3	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	160 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	75 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	206 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn. Thickness tested	V-0 / *	class	IEC 60695-11-10
^[C] Burning Behav. at thickness h Thickness tested	1.5 / *	mm	-
^[C] Burning Behav. at thickness h Thickness tested	V-0 / *	class	IEC 60695-11-10
^[C] Burning Behav. at thickness h Thickness tested	3.0 / *	mm	-
^[C] Oxygen index	65 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3 / 3	-	IEC 62631-2-1

Grilon BGM-65 X V0 natural

PA6-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

^[C] Dissipation factor, 100Hz	10 / 10	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	33 / 29	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 500	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1690 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	310	°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

Special Characteristics

Flame retardant

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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