

Product Texts

Product-nomenclature: ISO 16396-PA6,X,M1HRZ,S14-030N

Product Attributes

Improved impact resistance, Anti-static, Nucleated

Markets**Automotive**

Automotive electr. and electronics, lighting

Electricals & Electronics

Electrical appliances, Electrical equipment

Industry & Consumer goods

Housewares, Mechanical Engineering, Power transmission, Tools & Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
^[C] Density of melt	1050	kg/m ³	-
^[C] Thermal conductivity of melt	0.28	W/(m K)	-
^[C] Spec. heat capacity of melt	2500	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.07E-7	m ² /s	-
^[C] Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3000 / 1000	MPa	ISO 527
^[C] Yield stress	50 / 50	MPa	ISO 527
^[C] Yield strain	5 / 35	%	ISO 527
^[C] Nominal strain at break	20 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	75 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	45 / 50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5 / 8	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	65 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	165 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	50 / *	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	1000000 / 1000000	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E7	Ohm	IEC 62631-3-2
^[C] Electric strength	8 / 5	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	9 / *	%	Sim. to ISO 62

Grilon BS EC natural

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Humidity absorption	3 / *	%	Sim. to ISO 62
[C] Density	1220 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	75	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Additives

Lubricants

Special Characteristics

Anti-static, High impact or impact modified

Features

Nucleated

Applications

Automotive, Electrical and Electronical

Regional Availability

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