

Product Texts

Product-nomenclature: ISO 16396-PA6-I,GF30,M1HR,S14-100N

Product Attributes

Improved impact resistance, Improved heat resistance

Markets

Automotive

Powertrain and Chassis, 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]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10000 / 5800	MPa	ISO 527
^[C] Stress at break	170 / 100	MPa	ISO 527
^[C] Strain at break	3.5 / 6	%	ISO 527
^[C] Charpy impact strength, +23°C	85 / 95	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	80 / 80	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	16 / 28	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	12 / 12	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	195 / *	°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	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	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 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 32	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 500	-	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	1320 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Special Characteristics

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

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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