

Product Texts

Product-nomenclature: ISO 16396-PA66 PA6,GF50,M1HR,C14-160N

Product Attributes

Improved flowability and demoulding, Improved heat resistance

Markets

Automotive

Air intake systems, Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control, Powertrain and Chassis

Electricals & Electronics

Lighting

Industry & Consumer goods

Heating systems, Hydraulics & Pneumatics, Mechanical Engineering, Sports & Leisure

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.3 / *	%	ISO 294-4, 2577
^[C] Density of melt	1400	kg/m ³	-
^[C] Thermal conductivity of melt	0.29	W/(m K)	-
^[C] Spec. heat capacity of melt	1900	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.09E-7	m ² /s	-
^[C] Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16500 / 12000	MPa	ISO 527
^[C] Stress at break	230 / 150	MPa	ISO 527
^[C] Strain at break	2.5 / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	90 / 80	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	14 / 18	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 12	kJ/m ²	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	250 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	215 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	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	27 / 22	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 525	-	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	1550 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Granules, Black

Special Characteristics

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