

Product Texts

Product-nomenclature: ISO 16396-PA66 PA6,GF40,1MH,C14-140N

Product Attributes

Improved heat resistance

Markets

Automotive

Automotive electr. and electronics, lighting, Cooling and climate control, Powertrain and Chassis, Interior, Exterior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, 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	0.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	13500 / 10000	MPa	ISO 527
^[C] Stress at break	220 / 160	MPa	ISO 527
^[C] Strain at break	2.1 / 2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	75 / 80	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / 55	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	25 / 30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	25 / 30	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	225 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	20 / *	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 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	1E11 / 1E10	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	- / 500	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.8 / *	%	Sim. to ISO 62
^[C] Density	1450 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Granules, Black

Regional Availability

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