

Product Texts

Product-nomenclature: ISO 16396-PA6T/66,GF50,M1H,C14-190

Co Polyamide

Partially aromatic Polyamide

Product Attributes

Improved heat resistance, Improved UV resistance (outdoor use)

Markets

Automotive

Air intake sytems, Automotive electr. and electronics, lighting, Fuel systems, Powertrain and Chassis, Interior, Exterior

Electricals & Electronics

Electrical appliances, Electrical equipment

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	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	17500 / 17000	MPa	ISO 527
^[C] Stress at break	250 / 225	MPa	ISO 527
^[C] Strain at break	2 / 2	%	ISO 527
^[C] Charpy impact strength, +23°C	75 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 10	kJ/m ²	ISO 179/1eA
^[C] Shore D hardness	91 / *	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	310 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	280 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	230 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	55 / *	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	1E10 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	38 / 38	kV/mm	IEC 60243-1

Grivory HT2V-5H black 9205

PA6T/66-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Comparative tracking index

- / 600

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IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	3.5 / *	%	Sim. to ISO 62
[C] Humidity absorption	1.2 / *	%	Sim. to ISO 62
[C] Density	1620 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Features

Copolymer

Delivery form

Granules, Black

Applications

Automotive, Electrical and Electronical, Sports Equipment

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

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