

Product Texts

Product-nomenclature: ISO 16396-PA6T/6I,GF40,M1H,C12-140

Co Polyamide

Partially aromatic Polyamide

Product Attributes

Improved heat resistance

Markets

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control, Fuel systems, Powertrain and Chassis, Interior, Exterior

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] Density of melt	1.38	kg/m ³	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	14500 / 14000	MPa	ISO 527
^[C] Stress at break	220 / 210	MPa	ISO 527
^[C] Strain at break	2 / 2	%	ISO 527
^[C] Charpy impact strength, +23°C	70 / 70	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	70 / 70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8 / 8	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / 8	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, +23°C	1100 / 1000	N	ISO 6603-2
^[C] Puncture energy, +23°C	2.5 / 2.5	J	ISO 6603-2
^[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	325 / *	°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	200 / *	°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	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	1E11 / 1E11	Ohm*m	IEC 62631-3-1

Grivory HTV-4X1 black 9205

PA6T/6I-GF40

EMS-GRIVORY | a unit of EMS-CHEMIE AG

^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	30 / 30	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	3.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1530 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Granules, Black

Special Characteristics

Heat stabilized or stable to heat

Features

Copolymer

Applications

Automotive, Sports Equipment

Regional Availability

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