

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

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories

Approvals**Potable Water Contact**

NSF 61

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	1380	kg/m ³	-
^[C] Thermal conductivity of melt	0.28	W/(m K)	-
^[C] Spec. heat capacity of melt	2200	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.22E-8	m ² /s	-
^[C] Ejection temperature	280	°C	-

[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]: 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	175 / *	°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

Grivory HTV-4H1 natural

PA6T/6I-GF40

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E12 / 1E12	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[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

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	340	°C	ISO 294
Injection Molding, mold temperature	140	°C	ISO 294
Injection Molding, injection velocity	300	mm/s	ISO 294
Injection Molding, pressure at hold	75	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Special Characteristics

Heat stabilized or stable to heat

Features

Copolymer

Certifications

Drinking water contact, Drinking water contact NSF 61

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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