

Product Texts

Product-nomenclature: ISO 16396-PA 6I/X,,GC,C12-030

Co Polyamide

Partially aromatic Polyamide

Transparent Polyamide

Product Attributes

Hydrolysis resistant, Improved heat resistance, Highly transparent, Barrier material, Improved UV resistance (outdoor use)

Markets

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Sanitary, water and gas supply, Tools & Accessories

Approvals

Burning Behaviour

UL V2

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.7 / *	%	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	2800 / 2800	MPa	ISO 527
^[C] Yield stress	105 / 95	MPa	ISO 527
^[C] Yield strain	7 / 6	%	ISO 527
^[C] Nominal strain at break	25 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 12	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	160 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	125 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	60 / *	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	V-2 / *	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	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2

Grilamid TR XE 4139 black 9231

PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Electric strength	- / 27	kV/mm	IEC 60243-1
[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	9 / *	%	Sim. to ISO 62
[C] Humidity absorption	3.5 / *	%	Sim. to ISO 62
[C] Density	1150 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Black

Additives

Lubricants, Release agent

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

Regional Availability

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