

Product Texts

Product designation: ISO 16396-PA MACM10/1010,,GTL,C18-020

Bio based Polyamide

Co Polyamide

Transparent Polyamide

Product Attributes

Hydrolysis resistant, Improved impact resistance, Highly transparent

Markets

Automotive

Compressed air systems, Fuel systems

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Mobile phones and other portable devices, Lighting

Industry & Consumer goods

Housewares, Mechanical Engineering, Medical devices

Optics

Spectacle frames

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1700 / 1700	MPa	ISO 527
^[C] Yield stress	65 / 65	MPa	ISO 527
^[C] Yield strain	7 / 7	%	ISO 527
^[C] Nominal strain at break	>50 / >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	10 / 10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	118 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	90 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	105 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	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			

Grilamid BTR 600 LS natural

PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Volume resistivity	1E9 / 1E9	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
[C] Electric strength	40 / 40	kV/mm	IEC 60243-1
[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	3.8 / *	%	Sim. to ISO 62
[C] Humidity absorption	1.8 / *	%	Sim. to ISO 62
[C] Density	1020 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Natural Color

Additives

Lubricants

Special Characteristics

High impact or impact modified, Transparent

Features

Copolymer

Chemical Resistance

Hydrolytically Stable

Certifications

Contains renewable resources

Applications

Automotive, Electrical and Electronical, Medical

Regional Availability

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