

Product Texts

Product-nomenclature: ISO 16396-PAMACM12-I,,GHL,C14-020

Co Polyamide

Product Attributes

Hydrolysis resistant, Improved impact resistance, Improved UV resistance (outdoor use)

Markets

Automotive

Fuel systems, Interior, Exterior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution,

Mobile phones and other portable devices, Lighting

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Medical devices

Optics

Spectacle frames

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 1300	MPa	ISO 527
^[C] Yield stress	- / 50	MPa	ISO 527
^[C] Yield strain	- / 7	%	ISO 527
^[C] Nominal strain at break	- / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	- / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	- / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 60	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 25	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	155 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	110 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	120 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	120 / *	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	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	- / 45	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 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	990 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Granules, Natural Color

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather

Features

Copolymer

Chemical Resistance

Hydrolytically Stable

Applications

Automotive, Electrical and Electronical, Medical

Regional Availability

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