

Product Texts

Product-nomenclature: ISO 16396-PA MACM12/X,,GT,C14-020

Partially aromatic Polyamide

Transparent Polyamide

Product Attributes

Hydrolysis resistant, Highly transparent, Nucleated, Improved UV resistance (outdoor use)

Markets

Electricals & Electronics

Electrical appliances

Industry & Consumer goods

Heating systems, Medical devices

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
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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
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ISO Data			
^[C] Tensile Modulus	1500 / 1500	MPa	ISO 527
^[C] Yield stress	60 / 60	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	15 / 15	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 13	kJ/m ²	ISO 179/1eA
^[C] Shore D hardness	79 / *	-	ISO 7619-1

^[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
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ISO Data			
^[C] Glass transition temperature, 10°C/min	145 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	105 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	120 / *	°C	ISO 75-1/-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
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ISO Data			
^[C] Volume resistivity	1E10 / 1E10	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
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^[C] Water absorption	3 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62

[C] Density

1020 / -

kg/m³

ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Natural Color

Special Characteristics

U.V. stabilized or stable to weather, Transparent

Features

Nucleated

Chemical Resistance

Hydrolytically Stable

Applications

Electrical and Electronical, Medical

Regional Availability

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