

Product Texts

Product nomenclature: ISO 16396- PA 12, X50, MHL, C18-070

Product Attributes

Improved heat resistance, Improved UV resistance (outdoor use)

Markets

- Automotive**
Automotive electr. and electronics, lighting
- Electricals & Electronics**
Electrical equipment, Lighting
- Industry & Consumer goods**
Medical devices, Sports & Leisure

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	7000 / 5500	MPa	ISO 527
^[C] Stress at break	40 / 35	MPa	ISO 527
^[C] Strain at break	1 / 1	%	ISO 527
^[C] Charpy impact strength, +23°C	9 / 9	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	9 / 9	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5 / 4	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4 / 3	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	177 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	115 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	160 / *	°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
ISO Data			
^[C] Volume resistivity	1E9 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Electric strength	59 / 59	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.5 / *	%	Sim. to ISO 62
^[C] Density	1450 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Grilamid L XE 10967 natural

PA12-X50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Processing

Injection Molding

Delivery form

Granules, Natural Color

Special Characteristics

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

Applications

Automotive, Electrical and Electronical, Medical, Sports Equipment

Regional Availability

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