

Product Texts

Product-nomenclature: ISO 16396-PA12-I,GB10,M1SHL1,C18-010

Markets

Industry & Consumer goods
Sports & Leisure

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.5 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1500 / 1000	MPa	ISO 527
^[C] Yield stress	30 / 30	MPa	ISO 527
^[C] Yield strain	4.5 / 12	%	ISO 527
^[C] Nominal strain at break	40 / >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	20 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / 8	kJ/m ²	ISO 179/1eA
^[C] Shore D hardness	70 / *	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	50 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	110 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	125 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	130 / *	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	1E9 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
^[C] Electric strength	38 / 38	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	910 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Applications

Sports Equipment

Grilamid L XE 11357 natural

PA12-GB10

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Delivery form

Granules, Natural Color

Regional Availability

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