

Product Texts

Product-nomenclature: ISO 16396-PA 12,GF50,M1G,C12-140N

Product Attributes

Improved UV resistance (outdoor use)

Markets

Industry & Consumer goods

Housewares, Mechanical Engineering, Sports & Leisure

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 13300	MPa	ISO 527
^[C] Stress at break	- / 205	MPa	ISO 527
^[C] Strain at break	- / 2.7	%	ISO 527
^[C] Charpy impact strength, +23°C	- / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	- / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 45	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 45	kJ/m ²	ISO 179/1eA

[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	170 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	160 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	50 / *	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

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.4 / *	%	Sim. to ISO 62
^[C] Density	1470 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Applications

Sports Equipment

Delivery form

Granules, Natural Color

Regional Availability

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

Special Characteristics

U.V. stabilized or stable to weather