

Product Texts

Product-nomenclature: ISO 16396-PA12 X,GF25,M1HR,C18-060

Product Attributes

Hydrolysis resistant, Improved heat resistance

Markets

- Automotive**
Interior, Exterior
- Electricals & Electronics**
Mobile phones and other portable devices
- Industry & Consumer goods**
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	0.5 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	6000 / 5800	MPa	ISO 527
^[C] Stress at break	115 / 110	MPa	ISO 527
^[C] Strain at break	3 / 3	%	ISO 527
^[C] Charpy impact strength, +23°C	75 / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	75 / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	15 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 8	kJ/m ²	ISO 179/1eA
^[C] Shore D hardness	82 / *	-	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	140 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	65 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110 / *	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 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	32 / 32	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1190 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Black

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

Regional Availability

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