

Product Texts

Product-nomenclature: ISO 16396-PA12,GF65,M1HR,C18-190

Product Attributes

Improved impact resistance, Improved heat resistance, Improved UV resistance (outdoor use)

Markets

Automotive

Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Powertrain and Chassis

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Mobile phones and other portable devices

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Medical devices, Power transmission, Sanitary, water and gas supply, Sports & Leisure, Tools & Accessories

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	19000 / 18000	MPa	ISO 527
^[C] Stress at break	190 / 180	MPa	ISO 527
^[C] Strain at break	3 / 2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	- / 65	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	- / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 13	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 10	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	165 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	150 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15 / *	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	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
^[C] Electric strength	- / 35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.3 / *	%	Sim. to ISO 62
^[C] Density	1700 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Granules, Black

Special Characteristics

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

Regional Availability

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