

Product Texts

Product-nomenclature: ISO 16396-PA12,GF20,GHR,C22-040

Product Attributes

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

Markets

Automotive

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

Electricals & Electronics

Connectors, Lighting

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	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 3500	MPa	ISO 527
^[C] Stress at break	- / 80	MPa	ISO 527
^[C] Strain at break	- / 15	%	ISO 527
^[C] Charpy impact strength, +23°C	- / 110	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	- / 110	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 20	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	130 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	75 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	150 / *	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	- / 1E12	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	1.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.5 / *	%	Sim. to ISO 62
^[C] Density	1120 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Other Extrusion, Blow Molding

Delivery form

Granules, Black

Special Characteristics

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

Chemical Resistance

Hydrolytically Stable

Applications

Automotive, Electrical and Electronical, Medical, Sports Equipment

Regional Availability

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