

Product Texts

Product-nomenclature: ISO 16396-PA12,GF23 C,M1HRZ,C18-050

Product Attributes

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

Markets

Automotive
Fuel systems

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	- / 5500	MPa	ISO 527
^[C] Stress at break	- / 100	MPa	ISO 527
^[C] Strain at break	- / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	- / 55	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	- / 35	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 8	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	160 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	110 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	110 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	120 / *	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	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.5 / *	%	Sim. to ISO 62
^[C] Density	1230 / -	kg/m ³	ISO 1183

^[C]: CAMPUS

Characteristics

Processing

Injection Molding

Chemical Resistance

Hydrolytically Stable

Delivery form

Granules, Black

Applications

Automotive

Special Characteristics

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