

Product Texts

Product-nomenclature: ISO16396-PA12,GF30 C,M1HRZ,C18-080

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	0.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
^[C] Density of melt	1080	kg/m ³	-
^[C] Thermal conductivity of melt	0.26	W/(m K)	-
^[C] Spec. heat capacity of melt	2200	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.1E-7	m ² /s	-
^[C] Ejection temperature	155	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	7800 / 7000	MPa	ISO 527
^[C] Stress at break	125 / 110	MPa	ISO 527
^[C] Strain at break	5 / 7	%	ISO 527
^[C] Charpy impact strength, +23°C	85 / 80	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	70 / 65	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	15 / 15	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 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	160 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	90 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	50 / *	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	1.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1280 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	300	mm/s	ISO 294
Injection Molding, pressure at hold	75	MPa	ISO 294

[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

Regional Availability

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