

**Product Texts**

Product-nomenclature: ISO 16396-PA-I,GF15,M1HR,S14-060N

**Product Attributes**

Improved impact resistance, Improved heat resistance

**Markets**

**Automotive**

Powertrain and Chassis, Interior

**Electricals & Electronics**

Electrical appliances, Electrical equipment

**Industry & Consumer goods**

Housewares, Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	6000 / 3000	MPa	ISO 527
<sup>[C]</sup> Yield stress	* / 75	MPa	ISO 527
<sup>[C]</sup> Yield strain	* / 5	%	ISO 527
<sup>[C]</sup> Nominal strain at break	* / 8	%	ISO 527
<sup>[C]</sup> Stress at break	120 / *	MPa	ISO 527
<sup>[C]</sup> Strain at break	3.5 / *	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	70 / 80	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	60 / 70	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	12 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	7 / 7	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	190 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 8.00 MPa	120 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> 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
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	35 / 32	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	- / 500	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	7 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	2 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1190 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules, Natural Color

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Applications**

Automotive, Electrical and Electronical, Sports Equipment

**Regional Availability**

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