

**Product Texts**

Product-nomenclature: ISO 16396-PA 66 PA6,MD30,M1HR,C14-060N

**Product Attributes**

Improved heat resistance

**Markets****Automotive**

Fuel systems, Powertrain and Chassis, Exterior

**Electricals & Electronics**

Electrical appliances, Electrical equipment

**Industry & Consumer goods**

Housewares, Mechanical Engineering, Sports &amp; Leisure, Tools &amp; Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1220	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.26	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2200	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	9.69E-8	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	200	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	5800 / 2300	MPa	ISO 527
<sup>[C]</sup> Stress at break	75 / 45	MPa	ISO 527
<sup>[C]</sup> Strain at break	3 / 15	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	45 / 120	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	35 / 35	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	5 / 7	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	5 / 3	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	260 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	110 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 8.00 MPa	70 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	80 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	80 / *	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	1E11 / 1E9	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	27 / 27	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	- / 525	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	6.5 / *	%	Sim. to ISO 62

## Grilon TSM-30 natural

PA666-MD30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Humidity absorption	2 / *	%	Sim. to ISO 62
[C] Density	1370 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	75	MPa	ISO 294

[C]: CAMPUS

### Characteristics

#### Processing

Injection Molding

#### Delivery form

Granules, Natural Color

#### Special Characteristics

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