

**Product Texts**

Product-nomenclature: ISO 16396-PA66 PA6,GF30,M1HR,C14-100N

**Product Attributes**

High viscosity, Improved heat resistance

**Markets****Automotive**

Air intake systems, Cooling and climate control, Powertrain and Chassis

**Industry & Consumer goods**

Heating systems

| 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   | 0.6 / *    | %    | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties                                | dry / cond   | Unit              | Test Standard |
|--|--------------|-------------------|---------------|
| <b>ISO Data</b>                                      |              |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 10000 / 6200 | MPa               | ISO 527       |
| <sup>[C]</sup> Stress at break                       | 180 / 100    | MPa               | ISO 527       |
| <sup>[C]</sup> Strain at break                       | 3 / 8        | %                 | ISO 527       |
| <sup>[C]</sup> Charpy impact strength, +23°C         | 75 / 80      | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy impact strength, -30°C         | 65 / 60      | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 10 / 12      | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <sup>[C]</sup> Charpy notched impact strength, -30°C | 8 / 6        | 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    | 235 / *    | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Temp. of deflection under load, 8.00 MPa    | 130 / *    | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Coeff. of linear therm. expansion, parallel | 20 / *     | E-6/K | ISO 11359-1/-2  |
| <sup>[C]</sup> Coeff. of linear therm. expansion, normal   | 70 / *     | 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 / 1E11 | Ohm*m | IEC 62631-3-1 |
| <sup>[C]</sup> Surface resistivity        | * / 1E12    | Ohm   | IEC 62631-3-2 |
| <sup>[C]</sup> Electric strength          | 25 / 21     | kV/mm | IEC 60243-1   |
| <sup>[C]</sup> Comparative tracking index | - / 475     | -     | IEC 60112     |

[C]: CAMPUS

| Other properties                   | dry / cond | Unit              | Test Standard  |
|------------------------------------|------------|-------------------|----------------|
| <sup>[C]</sup> Water absorption    | 4.5 / *    | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Humidity absorption | 2 / *      | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Density             | 1350 / -   | kg/m <sup>3</sup> | ISO 1183       |

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules, Black

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

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