

Product Texts

Product-nomenclature: ISO 16396-PA66 PA6-I,GF50,M1HR,C14-160N

Product Attributes

Improved impact resistance, Improved heat resistance

Markets

Automotive

Powertrain and Chassis, Interior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors

Industry & Consumer goods

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

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|------------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.1 / * | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 0.4 / * | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|---------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 16500 / 10000 | MPa | ISO 527 |
| ^[C] Stress at break | 240 / 150 | MPa | ISO 527 |
| ^[C] Strain at break | 3 / 5 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 90 / 100 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 80 / 90 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 15 / 20 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 11 / 12 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 220 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 8.00 MPa | 165 / * | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 15 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 90 / * | 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

| Electrical properties | dry / cond | Unit | Test Standard |
|---|-------------|-------|---------------|
| ISO Data | | | |
| ^[C] Volume resistivity | 1E12 / 1E11 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | * / 1E12 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 27 / 22 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | - / 550 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|------------|-------------------|----------------|
| ^[C] Water absorption | 6 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 1.5 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1560 / - | kg/m ³ | 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