

UBE Nylon 1011GC4

Polyamide 6



General

| | |
|------------------------------------|--------------------------|
| Generic identification and marking | PA6-GF20 |
| Market example | Automotive, Industrial |
| Application example | Electrical & Electronics |
| Processing example | Injection molding |
| Elemental Technology | Glass fiber reinforced |
| Production area | Japan |
| Development product | Not applicable |

Mechanical property

| | Unit | Test standard | Typical value |
|---|-------------------|---------------|---------------|
| Tensile strength | MPa | ISO527-1,2 | 130 |
| Tensile strain at break | % | ISO527-1,2 | 2 |
| Tensile modulus | MPa | ISO527-1,2 | 7000 |
| Flexural strength | MPa | ISO178 | 200 |
| Flexural modulus | MPa | ISO178 | 6200 |
| Charpy notched impact strength | kJ/m ² | ISO179-1/1eA | 10 |
| Rockwell hardness (R scale) | - | ISO2039 | 120 |
| Rockwell hardness (M scale) | - | ISO2039 | 95 |
| Rockwell hardness (R scale) after moisture absorption | - | ISO2039 | 100 |

Thermal property

| | Unit | Test standard | Typical value |
|--|----------------------|---------------|---------------|
| Melting temperature | °C | ISO11357 | 215-225 |
| Temperature of deflection under load at 1.8MPa | °C | ISO75-1,2 | 205 |
| Thermal conductivity | x10 ⁻⁵ /K | ISO11359-2 | 3.5 |

Electrical property

| | Unit | Test standard | Typical value |
|----------------------------|--------|---------------|------------------|
| Comparative Tracking Index | sec | ASTMD495 | 121 |
| Dielectric constant | - | UL746A | 1 |
| Volume resistivity | Ω · cm | IEC60093 | 10 ¹⁵ |

Molding property

Other property

Remarks

* The contents of here written materials were prepared based on materials, information and data available at the present moment. They may be revised because of new knowledge, information and data without notification.

* The data described herein are averaged values obtained by specified measurement: they are not guaranteed figures.

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* UBE highly recommends to read the Safety Data Sheet “SDS” before using UBE products to ensure your safety.

* Do not use UBE products in medical application for the parts involving implanting in human body. Please consult in advance for a medical application or parts in contact with food stuff.

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