

Nylon6

N1020G20



Type : Thermal conductive grade, Electro-conductive type

Identification mark : PA6+GF+MD

| Property | Test conditions | Standard | Unit | DAM | Conditioned (50%RH) | |
|--------------------------------------|---|------------------------|---------------------|------------------------|---------------------|-----|
| MECHANICAL | Tensile stress at yield | ISO 527-1,-2 | MPa | 85 | 70 | |
| | Tensile stress at break | | | | | |
| | Tensile modulus | | | | | |
| | Tensile strain at yield | ISO 178 | % | 2 | 3 | |
| | Tensile strain at break | | | | | |
| | Flexural strength | ISO 178 | MPa | 150 | 120 | |
| | Flexural modulus | | MPa | 18000 | 14000 | |
| | Charpy impact strength | unnotched | ISO 179/1eU | kJ/m ² | 5 | 6.5 |
| | Charpy impact strength | notched | ISO 179/1eA | | | |
| | Rockwell Hardness | R Scale | ISO 2039-2 | — | | |
| THERMAL | Thermal conductive | Planar direction | W/(m·K) | 20 | 18 | |
| | | Thickness direction | | 5 | 4.5 | |
| | Coefficient of linear thermal expansion | flow transverse | ISO 11359-2 | 10 ⁻⁴ /°C | 0.1 0.57 | |
| Temperature of deflection under load | 1.8MPa | ISO 75-1,-2 | °C | 215 | | |
| | 0.45MPa | | | 220 | | |
| ELECTRICAL | Volume resistivity | IEC 62631-3-1 | Ω·m | 10 ² | | |
| | Electric strength | t:1mm | IEC 60243-1 | kV/mm | | |
| | Relative permittivity | 10 ⁶ Hz | IEC 62631-2-1 | — | | |
| | Dissipation factor | 10 ⁶ Hz | IEC 62631-2-1 | — | | |
| | Comparative tracking Index | | IEC 60112 | — | | |
| OTHERS | Density | ISO 1183 | g/cm ³ | 1.65 | | |
| | Water absorption | 23°C,50%RH | ISO 62 | % | 1.1 | |
| | Mold shrinkage | flow | UNITIKA Method 3mmt | % | 0.2 | |
| | | transverse | | | 0.3 | |
| | MVR | 275°C,5kg | ISO 1133 | cm ³ /10min | 8.5 | |
| Flammability | | UL94 File No.E47924 | — | | | |
| Mold conditions | Cylinder Temperature | | °C | 270-300 | | |
| | Mold temperature | | °C | 80-120 | | |

The data listed here are typical of average lots and not guaranteed values .

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