# Nylon6

# RUN35

Type : Ultra-high rigidity, warping resistance, good appearance

Identification mark ：PA6-(GF+MD)

| | Property | Test conditions | Standard | Unit | DAM | Conditioned (50%RH) |
|---|---|---|---|---|---|---|
| MECHANICAL | Tensile stress at yield<br>Tensile stress at break | | ISO 527-1,-2 | MPa | <br>200 | <br>170 |
| | Tensile modulus | | | MPa | 17500 | 14600 |
| | Tensile strain at yield<br>Tensile strain at break | | | % | <br>2 | <br>2 |
| | Flexural strength | | ISO 178 | MPa | 300 | 240 |
| | Flexural modulus | | | MPa | 17000 | 14000 |
| | Charpy impact strength | unnotched | ISO 179/1eU | kJ/m$^2$ | | |
| | Charpy impact strength | notched | ISO 179/1eA | | 11 | 14 |
| | Rockwell Hardness | R Scale | ISO 2039-2 | — | | |
| THERMAL | Thermal conductive | Planar direction<br>Thickness direction | ISO 18755 | W/(m·K) | | |
| | Coefficient of linear thermal expansion | flow<br>transverse | ISO 11359-2 | $10^{-4}$/°C | | |
| | Temperature of deflection under load | 1.8MPa<br>0.45MPa | ISO 75-1,-2 | °C | 192<br>195 | |
| ELECTRICAL | Volume resistivity | | IEC 62631-3-1 | Ω·m | $10^{13}$ | $10^{12}$ |
| | 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$^3$ | 1.70 | |
| | Water absorption | 23°C,50%RH | ISO 62 | % | 1.0 | |
| | Mold shrinkage | flow<br>transverse | UNITIKA Method 3mmt | % | 0.1<br>0.4 | |
| | MVR | 275°C,5kg | ISO 1133 | cm$^3$/10min | | |
| | Flammability | 1.5mmt | UL94<br>File No.E47924 | — | HB (Black) | |
| Mold conditions | Cylinder Temperature | | | °C | 260-280 | |
| | Mold temperature | | | °C | 80-120 | |

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