

E2001R

Type : High flowability

Identification mark : PA66

| Property | Test conditions | Standard | Unit | DAM | Conditioned (50%RH) | |
|-------------------|---|---|---------------------------|------------------------|---------------------|----|
| MECHANICAL | Tensile stress at yield | ISO 527-1,-2 | MPa | 85 | 60 | |
| | Tensile stress at break | | | | | |
| | Tensile modulus | | % | 3000 | 1000 | |
| | Tensile strain at yield | | | | | |
| | Tensile strain at break | MPa | 3000 | 1100 | | |
| | Flexural modulus | | | | | |
| | Flexural strength | ISO 178 | MPa | 115 | 50 | |
| | Flexural modulus | | | | | |
| | Charpy impact strength | unnotched | ISO 179/1eU | kJ/m ² | 4 | 14 |
| | Charpy impact strength | notched | ISO 179/1eA | | | |
| Rockwell Hardness | R Scale | ISO 2039-2 | — | 119 | 106 | |
| THERMAL | Thermal conductive | Planar direction Thickness direction | ISO 18755 | W/(m·K) | | |
| | Coefficient of linear thermal expansion | flow transverse | ISO 11359-2 | 10 ⁻⁴ /°C | 0.9 | |
| | Temperature of deflection under load | 1.8MPa 0.45MPa | ISO 75-1,-2 | °C | 70 190 | |
| ELECTRICAL | Volume resistivity | | IEC 62631-3-1 | Ω·m | 10 ¹² | |
| | Electric strength | t:1mm | IEC 60243-1 | kV/mm | 32 | |
| | Relative permittivity | 10 ⁶ Hz | IEC 62631-2-1 | — | 3.4 | |
| | Dissipation factor | 10 ⁶ Hz | IEC 62631-2-1 | — | 0.04 | |
| | Comparative tracking Index | | IEC 60112 | — | 600< | |
| OTHERS | Density | | ISO 1183 | g/cm ³ | 1.14 | |
| | Water absorption | 23°C,50%RH | ISO 62 | % | 2.3 | |
| | Mold shrinkage | flow transverse | UNITIKA Method 3mmt | % | 1.8 2.0 | |
| | MVR | 275°C,5kg | ISO 1133 | cm ³ /10min | 215 | |
| | Flammability | mmt | UL94 File No.E47924 | — | | |
| Mold conditions | Cylinder Temperature | | | °C | 270-290 | |
| | Mold temperature | | | °C | 60-110 | |

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