

**Product description**

Material name, long description	Polyamide 66
Material name, short description	PA 66
Material Code	PA 66 00.003-00
Color	natur
Density	1.15 g/cm <sup>3</sup>

**Mechanical characteristics**

Notch impact strength	Test value: 80 kJ/m <sup>2</sup> Test norm: DIN EN ISO 179-1eA Test parameter: dry conditions
Elongation at break	Test value: 50 % Test norm: ISO 527 Test parameter: dry conditions
Impact strength	Test value: kein Bruch - Test norm: ISO 179-1/1eU Test parameter: dry conditions, 23 °C
Shore hardness	Test value: 80 Shore D Test norm: ISO 868 Test parameter: dry conditions
Yield stress	Test value: 80 MPa Test norm: ISO 527 Test parameter: dry conditions
Modulus of elasticity and tension	Test value: 3200 MPa Test norm: DIN EN ISO 527 Test parameter: dry conditions
Tensile strength	Test value: 80 MPa Test norm: ISO 527 Test parameter: dry conditions

**Thermal characteristics**

Max. operating temperature long term	Test value: 95 °C Test norm: IEC 216 Test parameter: 5000 h
Max. operating temperature short term	Test value: ≤200 °C
Coefficient of linear thermal expansion	Test value: 7-10 10 <sup>-5</sup> K <sup>-1</sup> Test norm: DIN 53752 Test parameter: dry conditions
Crystalline melting point	Test value: 255 °C Test norm: ISO 3146 Test parameter: Methode A
Specific heat capacity	Test value: 1.7 kJ/kg·K Test norm: IEC 1006 Test parameter: dry conditions
Heat deflection temperature	Test value: 100 °C Test norm: ISO 75 Test parameter: dry conditions, Methode A
Thermal conductivity	Test value: 0.23 W/m·K Test parameter: Methode A, dry conditions

**Electrical characteristics**

Dielectric loss factor	Test value: 0.026 Test norm: IEC 250 Test parameter: dry conditions, 1 MHz
Dielectric constant	Test value: 3.2 Test norm: IEC 250 Test parameter: dry conditions, 1 MHz
Dielectric strength	Test value: 120 kV/mm Test norm: IEC 243 Test parameter: dry conditions
Volume resistivity	Test value: 10 <sup>15</sup> Ohm·cm Test norm: DIN IEC 93 Test parameter: dry conditions
Surface resistivity	Test value: 10 <sup>13</sup> Ohm Test norm: IEC 93 Test parameter: dry conditions
Comparative tracking index	Test value: > 600 Test norm: IEC 112 Test parameter: dry/humid conditions, KA/KB Stufe

**Other characteristics**

Flammability	Test value: HB Test norm: UL 94 Test parameter: Test thickness 1.6 mm
Moisture absorption	Test value: 2.8 % Test norm: ISO 62 Test parameter: 50 % RH, 23 °C
Water absorption at saturation	Test value: 8.5 % Test norm: ISO 62 Test parameter: in H <sub>2</sub> O at 23°C