

Application purpose and characteristics

Mechanical engineering, vehicle construction, building industry

High hardness and mechanical strength, good sliding properties, good abrasion resistance

Material name, short description	PA 66
Material name, based on technical standards	Polyamide 66
Density	1.150 g/cm ³
Color	
Compound code	PA 66 MO.001-00

Mechanical properties

Modulus of elasticity & tension 1	3400 N/mm ² DIN EN ISO 527
Yield stress	90 N/mm ² DIN EN ISO 527
Elongation at rupture	20 % DIN EN ISO 527
Hardness test value	83 Shore D
Ball indentation hardness	180 N/mm ² DIN EN ISO 2039-1
Notch impact strength	≥ 2 kJ/m ² DIN EN ISO 179

Other attributes

Water absorption	2.8 % DIN EN ISO 62
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Thermal attributes

Min. operating temperature	-30 °C
Max. operating temperature long term	95 °C
Max. operating temperature short term	170 °C
Coefficient of linear thermal expansion 1	80 * 10 ⁻⁶ K ⁻¹ DIN 53752
Crystalline melting point	260 °C ISO 11357-3
Heat deflection temperature 1	100 °C DIN EN ISO 75 / A
Specific heat capacity	1.7 J/g·K DIN 52612
Thermal conductivity	0.23 W/m·K DIN 52612-1

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.