Angst+Pfister

APSOplast® PA 66 GF30

Engineering Plastic Technology
Technical Data Sheet

Application purpose and characteristics

Mechanical engineering, electronic industry, vehicle construction
Good dimensional stability, high mechanical strength, high heat deflection temperature

Product description	
Material name, long description	Polyamide 66
Material name, short description	PA 66
Material Code	PA 66 GF30.001-00
Density	1.32 g/cm³

Mechanical characteristics	
Charpy impact strength	Test value: 6.0 kJ/m² Test norm: DIN EN ISO 179
Ball indentation hardness	Test value: 210 MPa Test norm: DIN EN ISO 2039-1
Elongation at break	Test value: 5 % Test norm: DIN EN ISO 527
Shore hardness	Test value: 86 Shore D Test norm: DIN EN ISO 868
Yield stress	Test value: 100 MPa Test norm: DIN EN ISO 527
Modulus of elasticity and tension	Test value: 5000 MPa Test norm: DIN EN ISO 527
Thermal characteristics	
Min. operating temperature	Test value: -20 °C
Max. operating temperature long term	Test value: 120 °C
Max. operating temperature short term	Test value: 200 °C
Coefficient of linear thermal expansion	Test value: 50 $10^{-6}K^{-1}$ Test norm: DIN 53752
Crystalline melting point	Test value: 260 °C Test norm: ISO 11357-3
Specific heat capacity	Test value: 1.5 kJ/kg*K Test norm: DIN 52612
Heat deflection temperature	Test value: 150 °C Test norm: DIN EN ISO 75 / A
Thermal conductivity	Test value: 0.24 W/m·K Test norm: DIN 52612-1

Other characteristics	
Flammability	Test value: HB / HB Test norm: UL 94 Test parameter: Thickness 3 mm / 6 mm
Moisture absorption	Test value: 1.7 % Test norm: DIN EN ISO 62