

**APSOplast® PA 6 G MO**
**Engineering Plastic Technology  
Technical Data Sheet**
**Application purpose and characteristics**

Mechanical engineering, offshore, steel industry

High rigidity, high toughness even at high temperatures, high UV resistance

**Product description**

Material name, long description	Polyamide 6 cast
Material name, short description	PA 6 G
Material Code	PA 6 G MO.001-00
Density	1.15 g/cm <sup>3</sup>

**Mechanical characteristics**

Elongation at break	Test value: ≥35 % Test norm: DIN EN ISO 527
Charpy impact strength	Test value: ≥2.5 kJ/m <sup>2</sup> Test norm: DIN EN ISO 179 Test parameter: Charpy
Ball indentation hardness	Test value: 185 MPa Test norm: DIN EN ISO 2039-1
Shore hardness	Test value: 83 Shore D Test norm: DIN EN ISO 868
Yield stress	Test value: 82 MPa Test norm: DIN EN ISO 527
Modulus of elasticity and tension	Test value: 3500 MPa Test norm: DIN EN ISO 527

**Thermal characteristics**

Min. operating temperature	Test value: -40 °C
Max. operating temperature long term	Test value: 110 °C
Max. operating temperature short term	Test value: 170 °C
Coefficient of linear thermal expansion	Test value: 80 10 <sup>-6</sup> K <sup>-1</sup> Test norm: DIN 53752
Crystalline melting point	Test value: 216 °C Test norm: ISO 11357-3
Specific heat capacity	Test value: 1.7 kJ/kg·K Test norm: DIN 52612
Heat deflection temperature	Test value: 95 °C Test norm: DIN EN ISO 75 / A
Thermal conductivity	Test value: 0.25 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
Water absorption at saturation	Test value: 2.5 % Test norm: DIN EN ISO 62