

APSOplost® PP grey
**Engineering Plastic Technology
Technical Data Sheet**
Application purpose and characteristics

Chemical engineering and tank building, ventilation and equipment manufacturing, pump engineering, food industry
High strength, high weldability, excellent chemical and corrosion resistance, suitable for direct food contact

Product description

Material name, long description	Polypropylene - Homopolymer
Material name, short description	PP
Material Code	PP 00.001-01
Density	0.91 g/cm³
Color	grey

Mechanical properties

Modulus of elasticity and tension	Test value: 1700 MPa Test norm: DIN EN ISO 527
Yield stress	Test value: 32 MPa Test norm: DIN EN ISO 527
Elongation at rapture	Test value: > 50 % Test norm: DIN EN ISO 527
Notch impact strength	Test value: 8 kJ/m² Test norm: DIN EN ISO 179
Shore hardness	Test value: 72 Shore D Test norm: DIN EN ISO 868

Thermal properties

Min. operating temperature	Test value: 0 °C
Max. operating temperature long term	Test value: 100 °C
Max. operating temperature short term	Test value: 150 °C
Crystalline melting point	Test value: 162 - 167 °C Test norm: ISO 11357-3
Coefficient of linear thermal expansion	Test value: 120 - 190 * 10⁻⁶K⁻¹ Test norm: DIN 53752
Heat deflection temperature	Test value: 90 °C Test norm: DIN EN ISO 306 Vicat B
Specific heat capacity	Test value: 1.7 kJ/kg·K Test norm: DIN 52612
Thermal conductivity	Test value: 0.20 W/m·K Test norm: DIN 52612-1

Approvals

- FDA 21 CFR 177.1520
- 1935/2004/EC
- 10/2011/EU
- GMP 2023/2006/EC



EC No.1935:2004

