

TECAFINE PP grey - Stock Shapes (rods, plates, tubes)

Chemical Designation

PP (Polypropylene)

Colour

grey opaque

Density

0.91 g/cm³

Main features

- excellent chemical resistance
- excellent stiffness
- heat stabilized
- very good weldable

Target Industries

- pharmaceutical industry
- chemical technology
- agricultural machinery
- construction industry
- food engineering
- power engineering

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Modulus of elasticity (tensile test)		1700	MPa	DIN EN ISO 527-1	(1) n.b. = not broken
Tensile strength at yield		33	MPa	DIN EN ISO 527-1	
Elongation at yield (tensile test)		8	%	DIN EN ISO 527-1	
Impact strength (Charpy)		n.b.	kJ/m ²	DIN EN ISO 179-1	1)
Ball indentation hardness		70	MPa	ISO 2039-1	
Shore hardness	Shore D	72		DIN EN ISO 868	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Service temperature		+0 - +100	°C	-	1) (1) Found in public sources. Individual testing regarding application conditions is mandatory.
Thermal expansion (CLTE)		16	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
surface resistivity		10 ¹⁴	Ω	-	
Dielectric strength		52	kV/mm	ISO 60243-1	
<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Flammability	corresponding to	B2		DIN 4102	1) (1) Corresponding means no listing. The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.

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