

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

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→ power engineering

Mechanical properties	parameter	value	unit	norm		comment
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	······	comment
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		
Thermal properties	parameter	value	unit	norm		
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		
Electrical properties	parameter	value	unit	norm	·····	comment
surface resistivity		10 ¹⁴	Ω	-		
Dielectric strength		52	kV/mm	ISO 60243-1	·····-	-
Other properties	parameter	value	unit	norm		comment
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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Manufactured by: Ensinger Group, a German based plastic manufacturer

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