

TECAPRO® MT black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PP (Polypropylene)

Colour

black

Density

0.92 g/cm³

Main features

- heat stabilized
- autoclavable
- biocompatible
- good chemical resistance
- hydrolysis and superheated steam resistant
- low moisture absorption
- good slide and wear properties

Target Industries

- medical technology
- pharmaceutical industry
- food engineering

Mechanical properties	condition	value	unit	test method	comment
Tensile strength at yield	@ 73 °F	4918	psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	50	%	ASTM D 638	
Flexural strength	@ 73 °F	6464	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	210,000	psi	ASTM D 790	
Compression strength	1% Sec. @ 73 °F	2510	psi	ASTM D 695	
Compression modulus		232000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	1.04	ft-lbs/in	ASTM D 256	
Thermal properties	condition	value	unit	test method	comment
Melting temperature		325	°F	-	1) (1) per ASTM D789
Deflection temperature	@264 psi	187	°F	ASTM D 648	
Service temperature	Long Term	212	°F	-	
Service temperature	Intermittent	284	°F	-	

→ Resin specification:
ASTM D 4101 PP0110
Shapes specification:
None

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

Ensinger Inc. Headquarters
365 Meadowlands Boulevard
Washington, PA 15301, USA

Phone 800-243-3221 Sales
Phone 800-869-4029 Technical
Fax 724-746-9209
sales@ensingerusa.com

Date: 2020/02/12

Version: A0