

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

### Chemical Designation

PP (Polypropylene)

### Colour

black

### Density

0.92 g/cm<sup>3</sup>

### 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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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

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