

## TECAPRO ® MT - Stock Shapes

### Chemical Designation

PP (Polypropylene)

### Colour

white

### 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

Mechanical properties	condition	value		test method	comment
Tensile strength at yield	@ 73 °F	5076	psi	ASTM D 638	
Elongation at break	@ 73 °F	12	%	ASTM D 638	
Flexural strength	@ 73 °F	7830	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	210,000	psi	ASTM D 790	
Compression strength	1% Sec, @ 73 °F	2320	psi	ASTM D 695	
Compression modulus		232000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.899	ft-lbs/in	ASTM D 256	
Thermal properties	condition	value		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 D4101-10a PP0113  
Shapes specification:  
None

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