

TECAST 6PB - Stock Shapes (rods, plates, tubes)

Chemical Designation

PA 6 (Polyamide 6)

Colour

Main features

- excellent impact strength
- very high strength

Target Industries

- construction industry
- heavy duty industry

Density

1.14

Mechanical properties	condition	value	unit	test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	370-425	ksi	ASTM D 638	(1) ASTM D 732
Tensile strength at yield	@ 73 °F	9300-10600	psi	ASTM D 638	
Compression strength	@ 73 °F	11500-13000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.8-1.0	ft-lbs/in	ASTM D 256	
Rockwell hardness	@ 73 °F R scale	110-115		ASTM D 785	
Shear strength	@ 73 °F	6500-7500	psi	-	1)
Thermal properties	condition	value	unit	test method	comment
Melting temperature		428	°F	DIN 53765	
Service temperature	Long Term	200	°F	-	

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