

## TECAST® L MO dark blue - Stock Shapes

### Chemical Designation

PA 6 (Polyamide 6)

### Colour

dark blue

### Density

1.15 g/cm<sup>3</sup>

### Fillers

oil, molybdenum disulfide

### Main features

- very good bearing and wear properties
- excellent slip-stick properties
- designed for minimal chatter
- very good mechanical strength
- high fatigue strength
- resistant to many oils, greases and fuels

### Target Industries

- construction industry
- heavy duty industry

Mechanical properties	condition	value		test method	comment
Tensile strength at yield	@ 73°F	8,500	psi	ASTM D 638	(1) Data obtained from public source
Tensile strength at break	@ 73°F	11,900	psi	ASTM D 638	1) (2) Data obtained from public sources
Elongation at yield	@ 73°F	4	%	ASTM D 638	(3) Data obtained from public source
Elongation at break	@ 73 °F	55	%	ASTM D 638	2)
Flexural strength	@ 73 °F	12,800	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	400,000	psi	ASTM D 790	
Compression modulus	@ 73 °F	406,000	psi	ASTM D 638	3)
Impact strength (Izod)	@ 73 °F	1.75	ft-lbs/in	ASTM D 256	
Rockwell hardness	R Scale	110		ASTM D 785	
Coefficient of friction	Static	0.16		-	
Coefficient of friction	Dynamic	0.14		-	
Thermal properties	condition	value		test method	comment
Melting temperature		428	°F	-	1) (1) Data obtained from public sources
Service temperature	Long Term	200	°F	-	(2) Data obtained from public source
Service temperature	Intermittent	330	°F	-	
Thermal expansion (CLTE)		4.0*10 <sup>-5</sup>	in/in/°F	ASTM D 696	
Thermal conductivity		2.29	BTU-in/hr-ft <sup>2</sup> -°F	-	2)
Other properties	condition	value		test method	comment
Limiting PV		17,000	psi-ft/min	-	(1) Data obtained from public source
Moisture absorption	@ 24 hrs.	0.5	%	ASTM D 570	1) (2) Data obtained from public source
Moisture absorption	@ saturation, 73°F	4	%	ASTM D 570	2)

- Resin specification:  
NONE  
Shapes specification:  
ASTM D5989-11 S-PA0200

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