

## TECAGLIDE black - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PA 6 (Polyamide 6)

### Colour

black

### Density

1.13

### Fillers

lubricant

### Main features

- excellent slip-stick properties
- excellent wear resistance
- good machinability
- resistant to many oils, greases and fuels
- high toughness
- high mechanical load capacity

### Target Industries

- conveyor technology
- construction industry
- heavy duty industry
- packaging and paper machinery

Mechanical properties	condition	value	unit	test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	520000	psi	ASTM D 638	(1) public source data
Modulus of elasticity (tensile test)	@ 73 °F after equilibrium @ 50% rel humidity	472000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F after equilibrium @ 50% rel humidity	9200	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	12000	psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	10	%	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F after equilibrium @ 50% rel humidity	17	%	ASTM D 638	
Modulus of elasticity (flexural test)	@ 73 °F	435000	psi	ASTM D 638	
Impact strength (Izod)	@ 73 °F	3.4	ft-lbs/in	ASTM D 256	
Coefficient of friction	Dynamic	0.12	-	-	1)
Thermal properties	condition	value	unit	test method	comment
Melting temperature		420	°F	-	1) (1) ASTM D736 (2) public source data
Service temperature	Max Short Term	300	°F	-	
Service temperature	Long Term	212	°F	-	
Thermal expansion (CLTE)		5	*10 <sup>-5</sup> in/in/°F	ASTM D 696	2)
Other properties	condition	value	unit	test method	comment
Moisture absorption	@ 24 hrs	2.5	%	-	

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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](mailto:sales@ensingerusa.com)

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