

## 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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
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)
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Melting temperature		420	°F	-	1) (1) ASTM D736
Service temperature	Max Short Term	300	°F	-	(2) public source data
Service temperature	Long Term	212	°F	-	
Thermal expansion (CLTE)		5	*10 <sup>-5</sup> in/in/°F	ASTM D 696	2)
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@ 24 hrs	2.5	%	-	

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at [www.ensingerplastics.com](http://www.ensingerplastics.com).

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)

Date: 2016/09/23

Version: A0