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	$*10^{-5}$ 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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Date: 2016/09/23
Version: A0