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TECAST® L green - Stock Shapes

Chemical Designation

PA 6 (Polyamide 6)

Colour green

Density

1.14 g/cm³

Fillers oil

Main features

- → excellent wear properties
- → excellent strength and stiffness
- → high mechanical load capacity
- → very good slide and wear properties

Target Industries

- → construction industry
- → agricultural machinery
- → gear manufacturing
- → mining industry

Date: 2014/05/09

- → conveyor technology
- → oil and gas industry

Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	350,000	psi	ASTM D 638		(1) Data obtained from public source (2) Data obtained from public source
Tensile strength at yield	@ 73 °F	9,000	psi	ASTM D 638	_	
Tensile strength at break	@ 73 °F	10,000	psi	ASTM D 638	1)	
Elongation at yield	@ 73 °F	8	%	ASTM D 638	2)	
Elongation at break	@ 73 °F	25	%	ASTM D 638	_	
Flexural strength	@ 73 °F	12,500	psi	ASTM D 790	_	
Modulus of elasticity (flexural test)	@ 73 °F	350,000	psi	ASTM D 790		
Impact strength (Izod)	@ 73 °F	1.2	ft-lbs/in	ASTM D 256	_	
Rockwell hardness	@ 73 °F	100		ASTM D 785		
Thermal properties	condition	value		test method		comment
Melting temperature		428	°F	ASTM D 2133		(1) Data obtained from public source (2) Data obtained from public source
Service temperature	Intermittent	330	°F	-		
Service temperature	Long Term	200	°F	-		
Thermal expansion (CLTE)		4.0*10 ⁻⁵	in/in/°F	ASTM D 696	-	
Specific heat		0.73	BTU/lb-F°	-	1)	
Thermal conductivity		2.57	BTU-in/hr-ft ²	-°F -	2)	
Electrical properties	condition	value		test method		comment
Specific surface resistance		1.0*10 ¹⁴	Ω/square	ASTM D 257	1)	(1) Data obtained from public
Specific volume resistance		1.0*10 ¹⁴	Ω*cm	ASTM D 257	2)	source (2) Data obtained from public source
Other properties	condition	value		test method		comment
Moisture absorption	@ 24 hrs, 73 °F	0.75	%	ASTM D 570		(1) Data obtained from public source
Flammability (UL94)		НВ	%	-	1)	

Resin specification: NONE
 Shapes specification: ASTM D5989-11 S-PA0251

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