

**LATILUB 57-30GRTS G/20**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphthalamide*
**General Information**
**Product Description**

Self-lubricating product based on Semi-aromatic polyamide (PPA). Graphite / PTFE / Silicone. Glass fibres.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Additive	• PTFE + Silicone + Graphite Lubricant
Features	• High Heat Resistance • Lubricated • Self Lubricating
Uses	• High Temperature Applications

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.52	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.85	%	
Flow : 0.0787 in	0.50 to 0.70	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.74E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	16000	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.3	%	ISO 527-2/5
Coefficient of Friction <sup>4</sup>			Internal Method
Dynamic	0.22		
Static	0.19		
Wear Factor <sup>5</sup>	370	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	5.7	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	554	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	518	°F	ISO 75-2/A
Vicat Softening Temperature	473	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.5E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60 MPa

<sup>3</sup> in air

<sup>4</sup> ISO 7148-2 (speed 0.126 m/s, load 10N)

<sup>5</sup> ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)
