

Latilub 82-05GR G/30

Polyamide 12

LATI S.p.A.

Message:

Self-lubricating product based on Polyamide 12 (PA12).
Graphite. Glass fibres.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Graphite Powder Lubricant		
Features	Self Lubricating		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.75 to 1.1	%	
Flow : 2.00 mm	0.35 to 0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7800	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	80.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/5
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.28		
vs. Itself - Static	0.32		
Wear Factor	150	10^-8 mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	175	°C	ISO 75-2/B
1.8 MPa, Unannealed	165	°C	ISO 75-2/A
Vicat Softening Temperature	170	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		

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