

# Silamid® G10

Polyamide 6  
Roonamid a.s.

Message:

Polyamide 6, filled with graphite, improved sliding properties, increased rigidity and shape stability, optimal fluidity of mould. Injection mouldings with requirements of reducing friction coefficient, the sliding additive is released from moulding at wearing and acts as a lubricant.

General Information				
Filler / Reinforcement		Graphite Fiber		
Additive		Slip		
Features		Good Dimensional Stability		
		Good Flow		
		High Rigidity		
		Low Friction		
		Slip		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	1.19	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	10	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.3	1.3	%	
Flow	1.2	1.2	%	
Water Absorption (23°C, 24 hr)	0.70	0.70	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4100	2200	MPa	ISO 527-2
Tensile Stress (Break)	70.0	40.0	MPa	ISO 527-2
Flexural Modulus	3500	1300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	5.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	60	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	175	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	240 to 250		°C	
Mold Temperature	60.0 to 80.0		°C	

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#### Recommended distributors for this material

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