

Silamid® G5

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, filled with graphite, improved sliding properties, 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 Flow		
		Good Wear Resistance		
		Low Friction		
		Slip		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	15	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.2	1.2	%	
Flow	1.2	1.2	%	
Water Absorption (23°C, 24 hr)	0.80	0.80	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3900	1500	MPa	ISO 527-2
Tensile Stress (Break)	80.0	50.0	MPa	ISO 527-2
Flexural Modulus	2600	1200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°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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