

Silamid® EN

Polyamide 6
Roonamid a.s.

Message:

PA6 unreinforced, microcrystalline structure, optimal manufacturing properties, high gloss of the mouldings, natural colour, technical mouldings for the application in electrotechnics and mechanical engineering

General Information				
Features		Crystalline		
		Good Strength		
		High Gloss		
		High Rigidity		
		Pleasing Surface Appearance		
Uses		Electrical/Electronic Applications		
		Engineering Parts		
Appearance		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	16	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.0	1.0	%	
Flow	1.0	1.0	%	
Water Absorption (23°C, 24 hr)	1.3	1.3	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	85.0	45.0	MPa	
Break	55.0	40.0	MPa	
Flexural Modulus	2400	800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	45	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	18	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.50		IEC 60250
Dissipation Factor (1 MHz)	--	0.14		IEC 60250
Arc Resistance	115	--	sec	ASTM D495
Comparative Tracking Index (Solution A)	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-2	--		UL 94
Glow Wire Ignition Temperature	960	960	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	230 to 250		°C	
Mold Temperature	60.0 to 80.0		°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

