

Silamid® EF

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, reduced flammability, high rigidity, shape stability, non halogenic flame retardant, natural, other color shades according to customer's requests, optimal processing properties. Suitable for injection mouldings in electrotechnics.

General Information				
Features		Flame Retardant		
		Good Dimensional Stability		
		Good Processability		
		Halogen Free		
		High Rigidity		
Uses		Electrical/Electronic Applications		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	1.19	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	1.3	1.3	%	
Water Absorption (23°C, 24 hr)	1.0	1.0	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	1600	MPa	ISO 527-2
Tensile Stress (Break)	60.0	30.0	MPa	ISO 527-2
Flexural Modulus	2800	1200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	165	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	60.0	--	°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	--	20	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.60		IEC 60250
Dissipation Factor (1 MHz)	--	0.12		IEC 60250
Arc Resistance	120	--	sec	ASTM D495
Comparative Tracking Index (Solution A)	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-2	--		
3.20 mm	V-0	--		
Glow Wire Ignition Temperature ¹	960	960	°C	IEC 60695-2-13
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	
NOTE				

1. Range: 850 to 960°C

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