

Silamid® EFX

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, type reinforced with 30% short glass fibres, modiflicated, high toughness at low humidity contents and at temperatures below 0°C , natural, other color shades according to customer's requests, optimal flow properties. Suitable for injection mouldings where increased impact resistance is required.

General Information				
Features		Flame Retardant		
		Good Processability		
		Good Toughness		
		Halogen Free		
		High Gloss		
Uses		Electrical/Electronic Applications		
Appearance		Colors Available		
		Natural Color		
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)	10	10	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.0	1.0	%	
Flow	1.2	1.2	%	
Water Absorption (23°C, 24 hr)	1.2	1.2	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1300	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	75.0	45.0	MPa	
Break	65.0	35.0	MPa	
Flexural Modulus	2500	1100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60 kJ/m ²	No Break		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	55.0	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	--	1.0E+12	ohms·cm	IEC 60093
Electric Strength	--	22	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.00		IEC 60250
Dissipation Factor (1 MHz)	--	0.10		IEC 60250
Arc Resistance	110	--	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
Needle Flame Test	30.0	30.0	sec	IEC 60695-2-2
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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