

Silamid® LSV30

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, type reinforced with 30% short glass fibres, modified, 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				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Flow		
		Good Toughness		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	1.5	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.3	1.3	%	
Flow	0.50	0.50	%	
Water Absorption (23°C, 24 hr)	0.90	0.90	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8000	5000	MPa	ISO 527-2
Tensile Stress (Break)	135	90.0	MPa	ISO 527-2
Flexural Modulus	7000	3500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	95	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+10	ohms·cm	IEC 60093
Electric Strength	--	18	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.70		IEC 60250
Dissipation Factor (1 MHz)	--	0.12		IEC 60250
Arc Resistance	70.0	--	sec	ASTM D495
Comparative Tracking Index (Solution A)	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Glow Wire Ignition Temperature ¹	650	650	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	250 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	
NOTE				

1. Range: 850 to 960°C

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