

Silamid® LSV20

Polyamide 6

Roonamid a.s.

Message:

Polyamide 6, type reinforced with 20% 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,20% Filler by Weight		
Features		Good Impact Resistance		
		Good Toughness		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	1.25	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	1.6 to 1.8	1.6 to 1.8	%	
Flow	0.80 to 0.90	0.80 to 0.90	%	
Water Absorption (23°C, 24 hr)	1.1	1.1	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5700	2900	MPa	ISO 527-2
Tensile Stress (Break)	115	70.0	MPa	ISO 527-2
Flexural Modulus	4600	2300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	22	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	80	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°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
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	

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