

Silamid® SV15

Polyamide 6

Roonamid a.s.

Message:

PA6 reinforced with 15 % short glass fibres, natural and black colour and in colourly shades according to customer's requests, optimal flowing properties, technical mouldings with increased claims to rigidity, strength, shape stability, eventually electroinsulating properties

General Information				
Filler / Reinforcement	Glass Fiber,15% Filler by Weight			
Additive	Impact Modifier			
Features	Electrically Insulating			
	Good Dimensional Stability			
	Good Flow			
	Good Strength			
	High Rigidity			
Uses	Construction Applications			
Appearance	Black			
	Colors Available			
	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	6.0	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.3	1.3	%	
Flow	0.30	0.30	%	
Water Absorption (23°C, 24 hr)	0.90	0.90	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3500	MPa	ISO 527-2
Tensile Stress (Break)	120	75.0	MPa	ISO 527-2
Flexural Modulus	4500	2200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	55	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	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
Electric Strength	--	15	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	5.00		IEC 60250
Dissipation Factor (1 MHz)	--	0.14		IEC 60250
Arc Resistance	95.0	--	sec	ASTM D495
Comparative Tracking Index (Solution A)	--	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Glow Wire Ignition Temperature	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 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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