

Silamid® SV25

Polyamide 6
Roonamid a.s.

Message:

Polyamide 6, type reinforced with 25% short glass fibres, natural, black, other color shades according to customer's requests, optimal flow properties. Suitable for injection mouldings with increased requirements to rigidity, strength, shape stability or electroinsulating properties.

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Electrically Insulating		
		Good Dimensional Stability		
		Good Flow		
		Good Strength		
		High Rigidity		
Appearance		Black		
		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	1.31	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	3.0	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.5	1.5	%	
Flow	0.40	0.40	%	
Water Absorption (23°C, 24 hr)	0.90	0.90	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	5700	MPa	ISO 527-2
Tensile Stress (Break)	160	100	MPa	ISO 527-2
Flexural Modulus	6000	3500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	65	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°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	--	18	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.70		IEC 60250
Dissipation Factor (1 MHz)	--	0.12		IEC 60250
Arc Resistance	95.0	--	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	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	

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