Silamid® SV15MF

Polyamide 6

Roonamid a.s.

Message:

Polyamide 6, type reinforced with short glass fibres and filled with mineral filler, modificated, high rigidity, shape stability under heat, reduced flammability, natural, grey (RAL 7035), optimal flow properties. Suitable for injection mouldings in electrotechnics.

General Information				
Filler / Reinforcement	Glass Fiber Mineral			
Features	Flame Retardant Good Dimensional Stability Good Flow High Rigidity			
Uses	Electrical/Electronic Applications			
Appearance	Grey Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.48	1.48	g/cm³	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	0.90	0.90	%	
Flow	0.40	0.40	%	
Water Absorption (23°C, 24 hr)	0.75	0.75	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7000	4000	MPa	ISO 527-2
Tensile Stress (Break)	100	70.0	MPa	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.0	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	40	kJ/m²	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	185	185	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+12	ohms·cm	IEC 60093
Electric Strength	--	20	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.50		IEC 60250
Dissipation Factor (1 MHz)	--	0.10		IEC 60250
Arc Resistance	120	--	sec	ASTM D495
Comparative Tracking Index (Solution A)	--	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-2	--		UL 94
Glow Wire Ignition Temperature	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	250 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	

Recommended distributors for this material

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