Silamid® SV50

Polyamide 6

Roonamid a.s.

Message:

Polyamide 6, type reinforced with 50% short glass fibres, natural, other color shades according to customer's requests, optimal flow properties. Suitable for injection mouldings with increased requirements to rigidity, strength, shape stability or electro-insulating properties.

General Information				
Features	Electrically Insulating Good Dimensional Stability Good Flow Good Strength High Rigidity			
Appearance	Colors Available Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.56	1.56	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	0.50	g/10 min	ISO 1133
Molding Shrinkage				
Across Flow	1.5	1.5	%	
Flow	0.50	0.50	%	
Water Absorption (23°C, 24 hr)	0.60	0.60	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	15000	10000	MPa	ISO 527-2
Tensile Stress (Break)	210	140	MPa	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	15	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	80	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°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
Comparative Tracking Index (Solution A)	--	450	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	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	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China