Silamid® HSV30

Polyamide 6

Roonamid a.s.

Message:

Polyamide 6, type reinforced with 30% short glass fibres, optimal flow properties, black, increased termo-oxidation stability. Suitable for injection mouldings with increased requirements to rigidity, strength, shape stability and in cases, where increased thermal stress occurs.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Features	Good Dimensional Stability Good Flow Good Strength Good Thermal Stability High Rigidity			
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	1.36	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	1.3	1.3	%	
Flow	0.50	0.50	%	
Water Absorption (23°C, 24 hr)	0.90	0.90	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	9000	6000	MPa	ISO 527-2
Tensile Stress (Break)	160	105	MPa	ISO 527-2
Flexural Modulus	7000	4500	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	10	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	60	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	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	--	20	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	4.70		IEC 60250
Dissipation Factor (1 MHz)	--	0.12		IEC 60250
Arc Resistance	105	--	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 [1]	650	650	°C	IEC 60695-2-13
Additional Information	Dry	Conditioned		Test Method
Thermal Resistance [2]	130	--		ISO 75-2
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	
NOTE				
1.	Range: 850 to 960°C			
2.	decrease 0%/1000h			

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