

Grilamid® 1SVX-50H nat

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® 1SVX-50H nat is a Polyamide 1010 (Nylon 1010) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilamid® 1SVX-50H nat are:

Flame Rated

Eco-Friendly/Green

Good Mold Release

Heat Stabilizer

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Good Flow
	Good Mold Release
	Heat Stabilized
	Renewable Resource Content
Uses	Appliance Components
	Automotive Applications
	Automotive Exterior Parts
	Connectors
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Medical Devices
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
Appearance	Natural Color
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.0	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	13000	MPa	ISO 527-2
Tensile Stress (Break)	200	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	18	18	kJ/m ²	
23°C	20	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	85	kJ/m ²	
23°C	100	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method

ISO Type	PA1010, MH, 14-140, GF50	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT