

NILAMID® XS1 GF65

Polyamide

Nilit Plastics

Message:

SPECIALTY PARTIALLY AROMATIC POLYAMIDE BLEND
DEVELOPED AS ALTERNATIVE TO METAL
GOOD STIFFNESS AND TENSILE STRENGTH
VERY LOW WARPAGE
VERY GOOD CREEP RESISTANCE
EXCELLENT SURFACE QUALITY
HIGH DIMENSIONAL STABILITY
PERFORMANCE INDEPENDENT FROM ENVIRONMENTAL CONDITIONS
PARTIALLY AROMATIC PA, 65% GLASS FIBER REINFORCED, LOW WARPAGE

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 65% filler by weight		
Features		Low warpage		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.79	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.28	--	%	ISO 294-4
Flow: 23°C	0.050	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	0.40	--	%	ISO 62
Saturated, 23°C	3.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	25000	24000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	270	250	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.9	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	15	--	kJ/m ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹ (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/A
Continuous Use Temperature ²	120	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ³	1.0E+11	--	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+14	--	ohms · cm	IEC 60093

Dielectric Strength (2.00 mm)	32	--	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.40 mm	HB	--		UL 94
0.8 mm	HB	--		UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
NOTE				
1.	Method B			
2.	2000 hr			
3.	23°C			

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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



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