

NILAMID® XS3 CF30 TF15

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, 30% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED

General Information				
Filler / Reinforcement		Carbon fiber reinforced material, 30% filler by weight		
Additive		PTFE lubricant (15%)		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.40	--	%	ISO 294-4
Flow: 23°C	0.15	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	0.40	--	%	ISO 62
Saturated, 23°C	4.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	22000	21000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	230	195	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	60	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	9.0	10	kJ/m ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹ (1.8 MPa, Unannealed)	225	--	°C	ISO 75-2/A
Continuous Use Temperature ²	120	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (3.20 mm, Solution A)	100	--	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		

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