

NILAMID® XT1 GF50

Polyphthalamide

Nilit Plastics

Message:

SPECIALTY PPA COMPOUND

DESIGNED FOR APPLICATIONS WITH THERMAL - REQUIREMENTS SIGNIFICANTLY HIGHER THAN THOSE OF - POLYAMIDE 6.6

HIGH STIFFNESS AND STRENGTH AT ELEVATED - TEMPERATURES

HIGH DIMENSIONAL STABILITY

EXCELLENT CREEP RESISTANCE

RESISTANCE TO CHEMICALS AND HYDROLYSIS

PPA, 50% GLASS FIBER REINFORCED, HEAT STABILIZED, FOR THE HIGHEST TEMPERATURE APPLICATIONS

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.64	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.50	--	%	ISO 294-4
Flow: 23°C	0.20	--	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.20	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	19500	19500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	260	230	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	2.1	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.5	--	kJ/m ²	ISO 179/1eA
23°C	9.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	78	--	kJ/m ²	ISO 179/1eU
23°C	80	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	11	--	kJ/m ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹ (1.8 MPa, Unannealed)	280	--	°C	ISO 75-2/A
Continuous Use Temperature ²	140	--	°C	IEC 60216

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	22	--	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	550	--	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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