

NILAMID® XT4 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, DESIGNED FOR IMPROVED CYCLE TIME

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.62	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	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	18600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	230	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.7	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	ISO 179/1eU
23°C	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (1.8 MPa, Unannealed)	295	°C	ISO 75-2/A
Continuous Use Temperature ²	140	°C	IEC 60216
Electrical	Nominal Value	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	Nominal Value	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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Recommended distributors for this material

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