NILAMID® XT1 GF30

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, 30% GLASS FIBER REINFORCED, HEAT STABILIZED, FOR THE HIGHEST TEMPERATURE APPLICATIONS

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.43	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.70	--	%	ISO 294-4
Flow: 23°C	0.30	--	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.20	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	12500	12500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	190	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	--	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.5	--	kJ/m²	ISO 179/1eA
23°C	6.5	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	--	kJ/m²	ISO 179/1eU
23°C	50	--	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	7.5	--	kJ/m²	ISO 180/A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (1.8 MPa, Unannealed)	265	--	°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)	21	--	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

Recommended distributors for this material

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