FRIANYL® XT4 GF30 VOXI

Polyphthalamide

Nilit Plastics

Message:

PPA FLAME RETARDANT COMPOUND
DESIGNED FOR E&E 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, FLAME RETARDANT V0, PBB AND PBDE FREE

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Features		Flame retardancy		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.67	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow: 23°C	0.70	--	%	ISO 294-4
Flow: 23°C	0.20	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	2.5	--	%	ISO 62
Saturated, 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)	180	170	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	2.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.5	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	38	--	kJ/m²	ISO 179/1eU
23°C	40	40	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	6.5	6.5	kJ/m²	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]	130	--	°C	IEC 60216
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [3]	1.0E+13	--	ohms	IEC 60093

Volume Resistivity (23°C)	1.0E+17	--	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	24	--	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.40 mm	V-2	--		UL 94
0.8 mm	V-0	--		UL 94
1.6 mm	V-0	--		UL 94
3.2 mm	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.8 mm	960	--	°C	IEC 60695-2-12
3.2 mm	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
0.8 mm	850	--	°C	IEC 60695-2-13
3.2 mm	875	--	°C	IEC 60695-2-13

NOTE	
1.	Method B
2.	20000 hr
3.	23°C

Recommended distributors for this material

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