FRIANYL® XT6 GF45 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, 45% GLASS FIBER REINFORCED, FLAME RETARDANT V0, PBB AND PBDE FREE

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Features	Flame retardancy		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.79	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow: 23°C	0.50	%	ISO 294-4
Flow: 23°C	0.15	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.5	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	15000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	190	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m²	ISO 179/1eU
23°C	55	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**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	**Nominal Value**	**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)	23	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	450	V	IEC 60112
Flammability	**Nominal Value**	**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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