Frianyl® XT4 GF30 V0I BK 9005/CC

Polyphthalamide

Celanese Corporation

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Technical Data

Product Description

PPA compound, 30% glass fiber reinforced, heat stabilized, halogens free.Â UL listed V0@0,4mm.
Specifically designed for electrical and electronic applications that require high thermal, peak and continuous resistance together with compliance with the most stringent safety requirements, this compound is also easy to process with excellent aesthetic results. Suitable for components that need to withstand the reflow soldering process (SMT).

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet		
Search for UL Yellow Card	• Celanese Corporation • Frianyl®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant	• Flame Retardant	
Features	• Flame Retardant	• Good Heat Resistance	
Forms	• Granules		
Processing Method	• Injection Molding		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	• Specific Volume vs Temperature (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.90	%	
Flow	0.10 to 0.50	%	
Water Absorption			ISO 62
Saturation, 23°C	3.0	%	
Equilibrium, 23°C, 50% RH	0.90	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11400	MPa	ISO 527-1
Tensile Stress (Break)	140	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.6	kJ/m²	
23°C	6.8	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	43	kJ/m²	
23°C	46	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	280	°C	
Continuous Use Temperature	140	°C	DIN/IEC 60216-1
Melting Temperature [3]	325	°C	ISO 11357-3

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 0		UL 746A
Comparative Tracking Index [4]	600	V	IEC 60112
Comparative Tracking Index	Group I		IEC 60112

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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.40 mm	V-0		
3.2 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.8 mm	960	°C	
3.2 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.8 mm	775	°C	
3.2 mm	825	°C	
FMVSS Flammability [5]	SE		FMVSS 302

Injection	Nominal Value	Unit
Processing (Melt) Temp	< 340	°C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] 20°C/min

[4] 50 drops

[5] ISO 3795

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Where to Buy

Supplier

Celanese Corporation
Florence, Florence USA
Telephone: 800-833-4882
Web: https://www.celanese.com/

Distributor

RESINEX Group
RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.
Telephone: +32-14-672511
Web: http://www.resinex.com/
Availability: Europe

SNETOR
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Availability: Bulgaria, Croatia, Czech Republic, France, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia

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