Frianyl® A3 H GF25 V0XI NC 1101/2

Polyamide 66 Celanese Corporation PROSPECTOR® www.ulprospector.com

Technical Data

Product Description

Polyamide 66 compound, 25% glass fibre reinforced, flame retardant with halogens, PBB and PBDE free. UL listed V0@0,8mm. Designed for Electrical applications requiring self-extinguishing properties combined with excellent ignition resistance, this grade meets the most stringent safety requirements for insulating materials.Â

General			
Material Status	Commercial: Active		
Literature ¹	 Technical Datasheet 		
Search for UL Yellow Card	 Celanese Corporation Frianyl® 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	 Glass Fiber 		
Additive	 Flame Retardant 	 Flame Retardant 	
Features	Flame Retardant	 Good Heat Resistance 	
Uses	 Automotive Applications 		
Forms	Granules		
Processing Method	 Injection Molding 		

Physical	Nominal Value Unit	Test Method
Density	1.61 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.50 to 0.70 %	
Flow	0.20 to 0.50 %	
Water Absorption		ISO 62
Saturation, 23°C	4.0 %	
Equilibrium, 23°C, 50% RH	1.0 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	10500 MPa	ISO 527-1
Tensile Stress (Break)	140 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	ISO 527-2/5
Flexural Modulus (23°C)	10000 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	50 kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	8.0 kJ/m ²	ISO 180/1A
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	245 °C	
Melting Temperature ³	260 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Comparative Tracking Index ⁴	400 V	IEC 60112
Comparative Tracking Index	Group IIIa	IEC 60112



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.8 mm	V-0	
1.6 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	925 °C	
1.0 mm	925 °C	
3.2 mm	955 °C	
FMVSS Flammability ⁵	SE	FMVSS 302

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

SNETOR is a Pan European distribution company. Contact SNETOR for availability of individual products by country. Telephone: +33-1-4904-8888 Web: http://www.snetor.com/ Availability: Bulgaria, Croatia, Czech Republic, France, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia



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