

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. A

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	
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/m ²	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 1.8 MPa, Unannealed	245 °C	ISO 75-2/A
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



Frianyl® A3 H GF25 V0XI NC 1101/2

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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

