FRIANYL® A3 GF30 V0 OR 2003/T

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Designed for Electrical applications requiring self-extinguishing properties combined with good mechanical performances, this grade meets the most stringent safety requirements for insulating materials.

Product information

Resin Identification	(PA66+PA6)-GF30 FR(40)	ISO 1043
Part Marking Code	>(PA66+PA6)-GF30 FR(40)<	ISO 11469

Rheological properties

	dry/cond.		
Melt volume-flow rate	50 / *	cm^3/10min	ISO 1133
Temperature	527 / *	°F	
Load	11 / *	lb	

Typical mechanical properties

	dry/cond.		
Tensile modulus	1.45E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	19600 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2 / -	%	ISO 527-1/-2
Charpy notched impact strength, 23 °C	3.09 / -	$ftlb/in^2$	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	500 / *	°F	ISO 11357-1/-3

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.0157 / *	in	IEC 60695-11-10
UL recognition	yes / *		UL 94

Electrical properties

	dry/cond.		
Comparative tracking index	600 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Density	0.0516 / -	lb/in^3	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.1	%
Melt Temperature Optimum	545	°F
Min. melt temperature	518	°F
Max. melt temperature	572	°F
Max. screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	176	°F
Min. mold temperature	140	°F
Max. mold temperature	212	°F

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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Renault	UB22a, BB/YG, No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB22b, No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB22c, No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB22d, No Spec, Special Part Approval, See Your CE Account Manager.	
VW Group	VW 50133	*Best Fitting Grade To PA66-6-A, Not Officially Approved

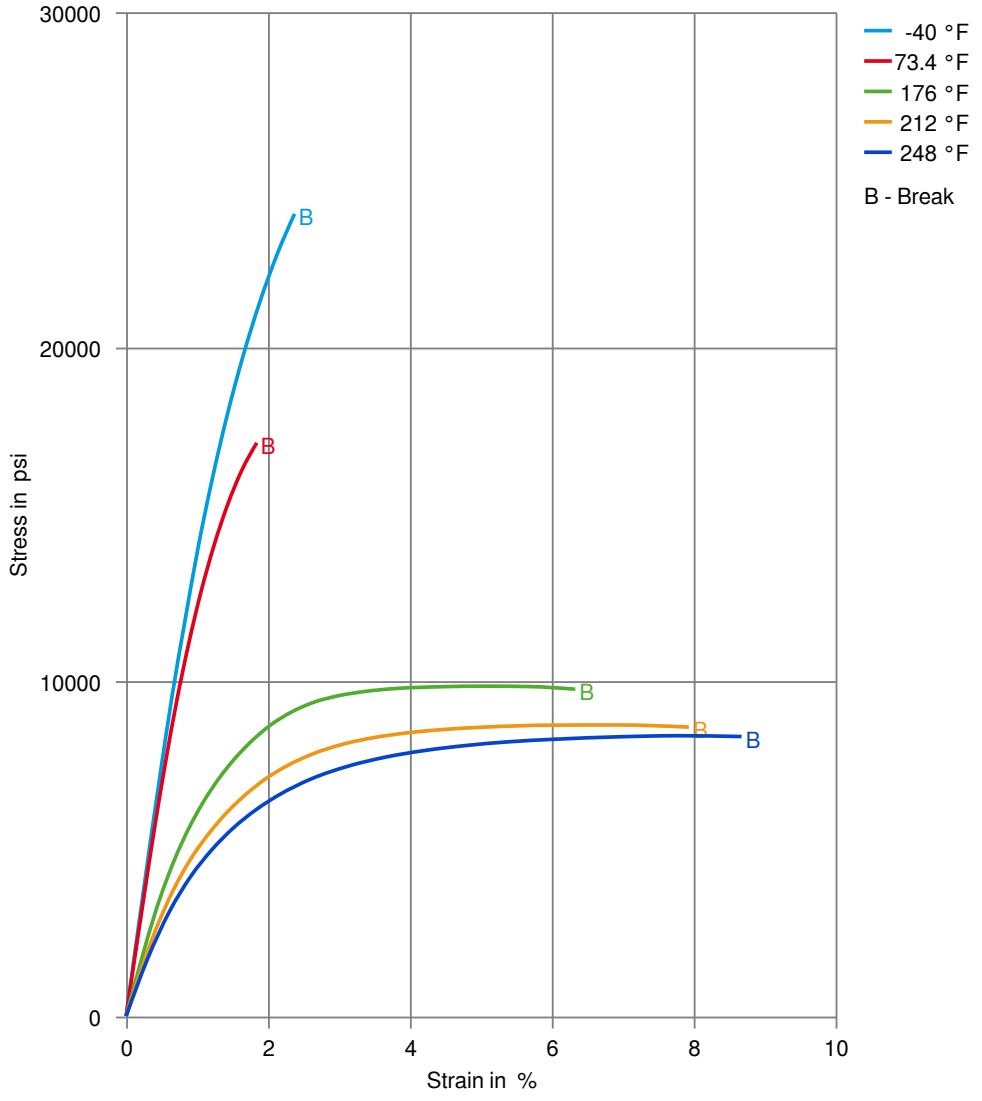
Characteristics

Processing	Injection Molding
Additives	Flame retardant, Non-halogenated/Red phosphorus free flame retardant
Special characteristics	Flame retardant, Heat stabilized or stable to heat

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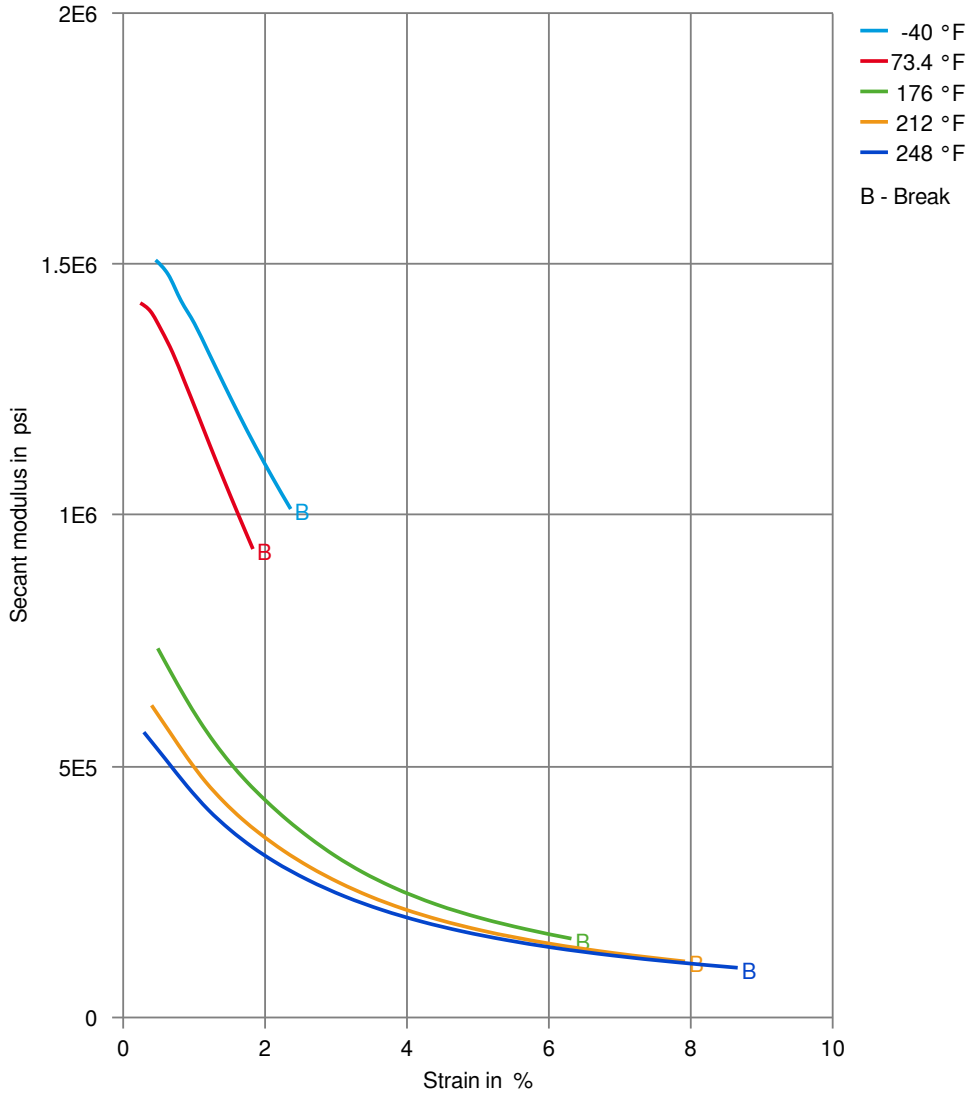
Stress-strain (dry)



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Secant modulus-strain (dry)



Revised: 2026-03-23 Source: Celanese Materials Database

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