FRIANYL® A3 W GF30 V0E NAT1 (PRELIMINARY)

FRIANYL®

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

产品信息

树脂鉴别	(PA66+PA6)-GF30 FR(40)	ISO 1043
制品标识码	>(PA66+PA6)-GF30 FR(40)<	ISO 11469
连续使用温度	130 °C	IEC 60216-1

机械性能

	dry/cond.		
拉伸模量	10500/6500	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	150/100	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	3/5	%	ISO 527-1/-2
简支梁无缺口冲击强度, 23°C	75/70	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	70/-	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	10.5/13	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	9/-	kJ/m²	ISO 179/1eA

热性能

	dry/cond.		
熔融温度, 10°C/min	257/*	°C	ISO 11357-1/-3

阻燃性能

	dry/cond.		
1.5mm名义厚度时的阻燃性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	1.5/*	mm	IEC 60695-11-10
UL认证	yes/*		UL 94
厚度为h时的阻燃性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	3/*	mm	IEC 60695-11-10
UL认证	yes/*		UL 94
灼热丝可燃指数, 0.75mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 3.0mm	960/-	°C	IEC 60695-2-12

电性能

	dry/cond.		
体积电阻率	1E14/-	Ohm.m	IEC 62631-3-1
表面电阻率	*/1E13	Ohm	IEC 62631-3-2
介电强度	45/-	kV/mm	IEC 60243-1
介电强度, 直流电	18.7	kV/mm	IEC 60243-2
相对漏电起痕指数	600/-		IEC 60112

其它性能

	dry/cond.		
吸湿率, 2mm	1.4/*	%	类似ISO 62
吸水率, 2mm	4.9/*	%	类似ISO 62
密度	1410/-	kg/m³	ISO 1183

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注塑

建议干燥	是
干燥温度	80 °C
干燥时间，除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.1 %
最优熔体温度	285 °C
最低熔体温度***	270 °C
最高熔体温度	300 °C
螺杆最大切线速度	≤ 0.2 m/s
最优模具温度	80 °C
最低模具温度	60 °C
最高模具温度	100 °C
顶出温度	209 °C

特性

加工方法	注塑
添加剂	阻燃剂, 无卤/无红磷阻燃剂, 低卤素含量
特殊性能	阻燃, 热稳定

Revised: 2026-04-10 Source: Celanese Materials Database

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.
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