

Zytel® FR50 BK153J

NYLON RESIN

Zytel® FR50 BK153J是一种25% 玻纤增强, 阻燃, 尼龙66

总说明

树脂鉴别	PA66-GF25FR(17)	ISO 1043
制品标识码	>PA66-GF25FR(17)<	ISO 11469
ISO名称	ISO 16396-PA66,GF25 FR(17),M1CF1GR,S14-100	

流变性能

	dry/cond.		
粘度	150/* ^[DS, 1]	cm ³ /g	ISO 307, 1157, 1628
模塑收缩率, 平行	0.3/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.7/-	%	ISO 294-4, 2577

[DS]: Derived from similar grade

[1]: Sulfuric acid 96%

机械性能

	dry/cond.		
拉伸模量	10400/-	MPa	ISO 527-1/-2
断裂应力	145/-	MPa	ISO 527-1/-2
断裂伸长率	2.6/-	%	ISO 527-1/-2
弯曲模量	9160/-	MPa	ISO 178
弯曲强度	240/-	MPa	ISO 178
简支梁缺口冲击强度, +23°C	9.5/-	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	10.7/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.34/-	-	

热性能

	dry/cond.		
熔融温度, 10°C/min	260/* ^[2]	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	241/*	°C	ISO 75-1/-2
相对温度指数, 电气性能, 0.75mm	130	°C	UL 746B
相对温度指数, 电气性能, 1.5mm	130	°C	UL 746B
相对温度指数, 电气性能, 3mm	130	°C	UL 746B
相对温度指数, 冲击, 0.75mm	105	°C	UL 746B
相对温度指数, 冲击, 1.5mm	115	°C	UL 746B
相对温度指数, 冲击, 3mm	115	°C	UL 746B
相对温度指数, 强度, 0.75mm	105	°C	UL 746B
相对温度指数, 强度, 1.5mm	115/*	°C	UL 746B
相对温度指数, 强度, 3mm	120	°C	UL 746B

[2]: 1st heating

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燃烧性能

1.5mm名义厚度时的燃烧性
 测试用试样的厚度
 UL注册
 厚度为h时的燃烧性
 测试用试样的厚度
 UL注册
 厚度为h时的5V燃烧性
 测试用试样的厚度
 UL注册
 FMVSS Class
 电热丝起燃
 电热丝起燃
 电热丝起燃

dry/cond.		
V-0/*	class	IEC 60695-11-10
1.5/*	mm	IEC 60695-11-10
yes/*	-	UL 94
V-0/*	class	IEC 60695-11-10
0.4/*	mm	IEC 60695-11-10
yes/*	-	UL 94
5VA/*	class	IEC 60695-11-20
1.5/*	mm	IEC 60695-11-20
yes/*	-	UL 94
SE/B	-	ISO 3795 (FMVSS 302)
300/*	s	UL 746A
300/*	s	UL 746A
300/*	s	UL 746A

电性能

相对漏电起痕指数
 耐高安培电弧起燃性
 耐高安培电弧起燃性
 耐高安培电弧起燃性

dry/cond.		
275/-	-	IEC 60112
166/*	arcs	UL 746A
171/*	arcs	UL 746A
187/*	arcs	UL 746A

其它性能

吸湿性, 2mm
 密度
 吸水性, 浸泡 24小时
 [3]: thickness 2mm

dry/cond.		
1.3/*	%	类似ISO 62
1570/-	kg/m ³	ISO 1183
0.6/* ^[3]	%	类似ISO 62

注塑

建议干燥
 干燥温度
 干燥时间, 除湿干燥机
 加工前水分含量
 最优熔体温度
 注塑 熔体温度
 注塑 熔体温度
 螺杆最大切线速度
 最优模具温度
 模具温度
 模具温度
 模具温度
 保压范围
 保压时间
 喷射温度

是
80 °C
2 - 4 h
≤ 0.2 %
290 °C
280 °C
300 °C
0.2 m/s
100 °C
70 °C
120 °C
50 - 100 MPa
3 s/mm
210 °C



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典型数据

添加剂

阻燃剂

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