

Zytel® FR50 NC010A

NYLON RESIN

DuPont Performance Polymers



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Technical Data

产品说明

Zytel® FR50 NC010A is a 25% glass fiber reinforced, flame retardant polyamide 66 resin for injection molding.

总体

材料状态	<ul style="list-style-type: none"> 已商用：当前有效
资料 ¹	<ul style="list-style-type: none"> Processing - Injection Molding (English) Processing - Typical Processing for DuPont Engineering Polymers (English) Processing - Injection Molding of Glass-reinforced Zytel (English) Technical Datasheet
UL Yellow Card ²	<ul style="list-style-type: none"> E41938-234494
Search for UL Yellow Card	<ul style="list-style-type: none"> DuPont Performance Polymers Zytel®
供货地区	<ul style="list-style-type: none"> 北美洲 非洲和中东 拉丁美洲 南美洲 欧洲 亚太地区 中美洲
填料/增强材料	<ul style="list-style-type: none"> 玻璃纤维增强材料, 25% 填料按重量
添加剂	<ul style="list-style-type: none"> 阻燃
性能特点	<ul style="list-style-type: none"> 阻燃性能
用途	<ul style="list-style-type: none"> Electrical Housing 电气/电子应用领域 电气部件 连接器
RoHS 合规性	<ul style="list-style-type: none"> 联系制造商
外观	<ul style="list-style-type: none"> 自然色
形式	<ul style="list-style-type: none"> 颗粒料
加工方法	<ul style="list-style-type: none"> 注射成型
多点数据	<ul style="list-style-type: none"> Isothermal Stress vs. Strain (ISO 11403-1)
部件标识代码 (ISO 11469)	<ul style="list-style-type: none"> >PA66-GF25FR(17)<
树脂ID (ISO 1043)	<ul style="list-style-type: none"> PA66-GF25FR(17)

物理性能	干燥	调节后的	单位制	测试方法
密度	1.60	--	g/cm ³	ISO 1183
收缩率				ISO 294-4
横向流量: 2.00 mm	0.80	--	%	
流量: 2.00 mm	0.30	--	%	
吸水率 (平衡, 23°C, 1.00 mm, 50% RH)	0.70	--	%	ISO 62
机械性能	干燥	调节后的	单位制	测试方法
拉伸模量 (23°C)	10600	7500	MPa	ISO 527-2
拉伸应力 (断裂, 23°C)	170	--	MPa	ISO 527-2
拉伸应变 (断裂, 23°C)	2.5	--	%	ISO 527-2
弯曲模量 (23°C)	9450	--	MPa	ISO 178
冲击性能	干燥	调节后的	单位制	测试方法
简支梁缺口冲击强度				ISO 179/1eA
-40°C	11	--	kJ/m ²	
23°C	11	--	kJ/m ²	
简支梁缺口冲击强度 (23°C)	40	--	kJ/m ²	ISO 179/1eU
热性能	干燥	调节后的	单位制	测试方法
热变形温度 (1.8 MPa, 未退火)	246	--	°C	ISO 75-2/A
熔融温度 ⁴	261	--	°C	ISO 11357-3
RTI Elec				UL 746
0.750 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	

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热性能	干燥	调节后的	单位制	测试方法
RTI Imp				UL 746
0.750 mm	105	--	°C	
1.50 mm	115	--	°C	
3.00 mm	115	--	°C	
RTI Str				UL 746
0.750 mm	105	--	°C	
1.50 mm	115	--	°C	
3.00 mm	120	--	°C	
电气性能	干燥	调节后的	单位制	测试方法
体积电阻率	1.0E+16	--	ohm-cm	IEC 60093
相对电容率 (23°C, 1 MHz)	3.80	--		IEC 60250
耗散因数				IEC 60250
23°C, 100 Hz	0.018	--		
23°C, 1 MHz	0.018	--		
相比耐漏电起痕指数(CTI)	PLC 2	--		UL 746
漏电起痕指数	285	--	V	IEC 60112
可燃性	干燥	调节后的	单位制	测试方法
UL 阻燃等级				
0.350 mm	V-0	--		UL 94 IEC 60695-11-10,-20
0.750 mm	V-0	--		UL 94 IEC 60695-11-10,-20
1.50 mm	5VA	--		UL 94
3.00 mm	5VA	--		UL 94
1.50 mm	• V-0 • 5VA	--		IEC 60695-11-10,-20
3.00 mm	V-0	--		IEC 60695-11-10,-20
灼热丝易燃指数				IEC 60695-2-12
0.750 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
热灯丝点火温度				IEC 60695-2-13
0.750 mm	900	--	°C	
1.50 mm	900	--	°C	
3.00 mm	930	--	°C	
注射	干燥 单位制			
干燥温度	80.0 °C			
干燥时间	2.0 到 4.0 hr			
建议的最大水分含量	< 0.20 %			
加工 (熔体) 温度	280 到 300 °C			
Melt Temperature, Optimum	290 °C			
模具温度	70.0 到 120 °C			
Mold Temperature, Optimum	100 °C			
Drying Recommended	Yes, if moisture content of resin exceeds recommended level			

备注

¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ 一般属性：这些不能被视为规格。

⁴ 10°C/min

购买地点

Supplier

Zytel® FR50 NC010A

DuPont Performance Polymers

Wilmington, DE USA
Telephone: 302-999-4592
Web: <http://plastics.dupont.com/>

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Wilmington, DE USA
Telephone: 302-999-4592
Web: <http://plastics.dupont.com/>

Distributor

Zytel® FR50 NC010A

CCC Plastics

Telephone: 800-465-6917
Web: <http://www.cccplastics.com/>
Availability: Canada

Zytel® FR50 NC010A

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.
Telephone: 800-894-4266
Web: <http://polyonedistribution.com/>
Availability: Global



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– Kevin Chase, Owner & President, Chase Plastics



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