Zytel® HTNFR52G45NHF NC010 (PRELIMINARY)

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTNFR52G45NHF NC010是一种45% 玻纤增强, 阻燃, 无卤, 高温尼龙, 高性能聚酰胺具有更佳的流动性

产品信息

树脂鉴别	PA6T/66-GF45 FR(40)	ISO 1043
制品标识码	>PA6T/66-GF45 FR(40)<	ISO 11469
制品标识码	>PPA-GF45 FR<	SAE J1344
ISO名称	ISO 16396-PA6T/66,GF45 FR(40),M1F1GN,S10-160	

流变性能

	dry/cond.		
模塑收缩率, 平行	0.2/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.6/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	15500/-	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	167/-	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	1.7/-	%	ISO 527-1/-2
弯曲模量	15100/-	MPa	ISO 178
弯曲强度	250/-	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	48/-	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	45/-	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	8/-	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	8/-	kJ/m²	ISO 179/1eA

热性能

	dry/cond.		
熔融温度, 10°C/min	310/*	°C	ISO 11357-1/-3
熔融温度, 第一次升温	310/*	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	90/45	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	284/*	°C	ISO 75-1/-2
线性热膨胀系数, 平行	15/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行，-40-23°C	13/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行，55-160°C	14/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	50/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直，-40-23°C	43/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直，55-160°C	80/*	E-6/K	ISO 11359-1/-2
相对温度指数，电气, 0.4mm	140	°C	UL 746B
相对温度指数，电气, 0.75mm	140	°C	UL 746B
相对温度指数，电气, 1.5mm	140	°C	UL 746B
相对温度指数，电气, 3.0mm	140	°C	UL 746B
相对温度指数，强度, 0.75mm	125	°C	UL 746B
相对温度指数，强度, 1.5mm	125/*	°C	UL 746B
相对温度指数，强度, 3.0mm	130	°C	UL 746B

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阻燃性能

	dry/cond.		
厚度为h时的阻燃性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	0.4/*	mm	IEC 60695-11-10
UL认证	yes/*		UL 94
灼热丝可燃指数, 0.4mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 0.75mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 1.5mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 3.0mm	960/-	°C	IEC 60695-2-12
灼热丝起燃温度, 0.75mm	750/-	°C	IEC 60695-2-13
灼热丝起燃温度, 0.4mm	700/-	°C	IEC 60695-2-12
灼热丝起燃温度, 1.5mm	750/-	°C	IEC 60695-2-13
灼热丝起燃温度, 3.0mm	800/-	°C	IEC 60695-2-13

电性能

	dry/cond.		
相对介电常数, 100Hz	4.7/-		IEC 62631-2-1
相对介电常数, 1MHz	4.4/-		IEC 62631-2-1
介质损耗因子, 100Hz	60/-	E-4	IEC 62631-2-1
介质损耗因子, 1MHz	115/-	E-4	IEC 62631-2-1
体积电阻率	>1E13/-	Ohm.m	IEC 62631-3-1
介电强度	40/-	kV/mm	IEC 60243-1
相对漏电起痕指数	600/-		IEC 60112

其它性能

	dry/cond.		
密度	1600/-	kg/m³	ISO 1183

注塑

建议干燥	是	
干燥温度	100	°C
干燥时间，除湿干燥机	6 - 8	h
加工前水分含量	≤ 0.1	%
最低熔体温度***	320	°C
最高熔体温度	325	°C
最低模具温度	90	°C
最高模具温度	130	°C
保压时间 (h表示部件的最大壁厚mm)	h²+2	s

特性

加工方法	注塑
添加剂	阻燃剂, 无卤/无红磷阻燃剂
特殊性能	阻燃, 耐无铅焊接

其他信息

注塑	For molding machine components, use corrosion resistant and wear resistant steel. For details please contact our representative. Limit the residence time of the resin in the machine. Use proper protective equipment and adequate ventilation.

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Revised: 2025-07-08 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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