



Zytel® 79G13HSL BK039

NYLON RESIN

Zytel® 尼龙树脂的共性包括良好的机械和物理性能，例如高机械强度，刚性和韧性之间良好的平衡，良好的高温性能、电性能和阻燃性能，优异的耐磨损和耐化学品性能。另外，Zytel®

尼龙树脂有不同改性和增强规格为特殊加工和终端客户提供定制的性能。Zytel®

尼龙树脂，包括大多数阻燃规格，提供了染色可能性。

Zytel® 尼龙树脂良好的热稳定性通常使正确处理的生产废弃物回收成为可能。如果不能回收使用，杜邦建议的优先选择是在合适的装置中焚烧进行能量回收（基体树脂-31kJ/g）。废弃处理需遵守当地法规。

Zytel® 尼龙树脂通常应用于要求严苛的汽车、家具、家用电器、运动器材和建筑业。

Zytel® 79G13HSL BK039是一种13% 玻纤增强, 增韧, 热稳定, 尼龙66

总说明

树脂鉴别	PA66-IGF13	ISO 1043
制品标识码	>PA66-IGF13<	ISO 11469
ISO名称	ISO 16396-PA66-I,GF13,M1CGHR,S18-050	

流变性能

	dry/cond.		
粘数.	163/*	cm ³ /g	ISO 307, 1157, 1628
模塑收缩率, 平行	0.5/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.8/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	5100/3700	MPa	ISO 527-1/-2
断裂应力	115/67	MPa	ISO 527-1/-2
断裂伸长率	4/10	%	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	67/59	kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	59/54	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	8/12	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	6/6	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	7.5/10	kJ/m ²	ISO 180/1A
Poisson's ratio	0.35/0.36	-	

热性能

	dry/cond.		
熔融温度, 10°C/min	262/*	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	240/*	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	260/*	°C	ISO 75-1/-2
相对温度指数, 电气性能, 0.75mm	105	°C	UL 746B
相对温度指数, 电气性能, 1.5mm	120	°C	UL 746B
相对温度指数, 电气性能, 3mm	120	°C	UL 746B
相对温度指数, 冲击, 0.75mm	65	°C	UL 746B
相对温度指数, 冲击, 1.5mm	105	°C	UL 746B
相对温度指数, 冲击, 3mm	105	°C	UL 746B



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相对温度指数, 强度, 0.75mm	105	°C	UL 746B
相对温度指数, 强度, 1.5mm	120/*	°C	UL 746B
相对温度指数, 强度, 3mm	120	°C	UL 746B

燃烧性能

	dry/cond.		
1.5mm名义厚度时的燃烧性	HB/*	class	IEC 60695-11-10
测试用试样的厚度	1.5/*	mm	IEC 60695-11-10
UL注册	yes/*	-	UL 94
厚度为h时的燃烧性	HB/*	class	IEC 60695-11-10
测试用试样的厚度	0.8/*	mm	IEC 60695-11-10
UL注册	yes/*	-	UL 94
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	24	mm/min	ISO 3795 (FMVSS 302)

电性能

	dry/cond.		
体积电阻率	>1E13/1E10	Ohm.m	IEC 62631-3-1
表面电阻率	*/1E12	Ohm	IEC 62631-3-2

其它性能

	dry/cond.		
密度	1210/-	kg/m ³	ISO 1183

VDA性能

	dry/cond.		
有机化合物的排放	13	□ gC/g	VDA 277
气味测试	4	class	VDA 270
雾化	0.3/*	mg	ISO 6452

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	≤ 0.2 %
最优熔体温度	295 °C
注塑 熔体温度	285 °C
注塑 熔体温度	305 °C
螺杆最大切线速度	0.2 m/s
最优模具温度	80 °C
模具温度	50 °C
模具温度	100 °C
保压范围	50 - 100 MPa
保压时间	3 s/mm
喷射温度	210 °C



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