



Zytel® EFE1068 NC010T

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、运动器材和建筑行业。

Zytel® EFE1068 NC010T是一种未增强 尼龙66

总说明

树脂鉴别	PA66	ISO 1043
制品标识码	>PA66<	ISO 11469
ISO名称	ISO 16396-PA66,,M1G1NR,S14-030	

流变性能

	dry/cond.		
粘数.	143/*	cm ³ /g	ISO 307, 1157, 1628
模塑收缩率, 平行	1.5/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.5/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	3000/1500	MPa	ISO 527-1/-2
屈服应力	84/59	MPa	ISO 527-1/-2
屈服伸长率	4.5/25	%	ISO 527-1/-2
名义断裂伸长率	20/>50	%	ISO 527-1/-2
断裂伸长率	32/-	%	ISO 527-1/-2
弯曲模量	2800/1300	MPa	ISO 178
弯曲强度	115/75	MPa	ISO 178
简支梁无缺口冲击强度, +23°C	N/N	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	5/12	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	5/10	kJ/m ²	ISO 180/1A
悬臂梁缺口冲击强度, -40°C	4/-	kJ/m ²	ISO 180/1A
洛氏硬度, Rockwell	121/108	-	ISO 2039-2
Poisson's ratio	0.37/0.43	-	

热性能

	dry/cond.		
熔融温度, 10°C/min	263/*	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	70/*	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	200/*	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	257/*	°C	ISO 306
熔体	0.14	W/(m K)	



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熔体的比热	2790	J/(kg K)	
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, 电气性能, 6mm	130	°C	UL 746B
相对温度指数, 冲击, 0.75mm	75	°C	UL 746B
相对温度指数, 冲击, 1.5mm	75	°C	UL 746B
相对温度指数, 冲击, 3mm	75	°C	UL 746B
相对温度指数, 冲击, 6mm	75	°C	UL 746B
相对温度指数, 强度, 0.75mm	85	°C	UL 746B
相对温度指数, 强度, 1.5mm	85/*	°C	UL 746B
相对温度指数, 强度, 3mm	85	°C	UL 746B
相对温度指数, 强度, 6mm	85	°C	UL 746B

燃烧性能

	dry/cond.		
1.5mm名义厚度时的燃烧性	V-2/*	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	V-2/*	class	IEC 60695-11-10
测试用试样的厚度	0.4/*	mm	IEC 60695-11-10
UL注册	yes/*	-	UL 94
燃烧性 - 氧指数	24/*	%	ISO 4589-1/-2
灼热丝燃烧指数, 0.4mm	900/-	°C	IEC 60695-2-12
灼热丝燃烧指数, 0.75mm	900/-	°C	IEC 60695-2-12
灼热丝燃烧指数, 1.5mm	960/-	°C	IEC 60695-2-12
灼热丝燃烧指数, 2mm	960/-	°C	IEC 60695-2-12
灼热丝燃烧指数, 3mm	960/-	°C	IEC 60695-2-12
灼热丝起燃温度, 1mm	825/-	°C	IEC 60695-2-13
灼热丝起燃温度, 2mm	750/-	°C	IEC 60695-2-13
灼热丝起燃温度, 3mm	775/-	°C	IEC 60695-2-13
灼热丝温度, 无火, 1mm	750/-	°C	IEC 60335-1
灼热丝温度, 无火, 2mm	725/-	°C	IEC 60335-1
FMVSS Class	SE	-	ISO 3795 (FMVSS 302)

电性能

	dry/cond.		
介质损耗因子, 100Hz	100/-	E-4	IEC 62631-2-1
介质损耗因子, 1MHz	100/-	E-4	IEC 62631-2-1
体积电阻率	1E13/-	Ohm.m	IEC 62631-3-1
介电强度	27/-	kV/mm	IEC 60243-1
相对漏电起痕指数	600/-	-	IEC 60112

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- ✓ 氢氧化钠溶液 (1g/100g), 23°C
- ✓ 氨水(氢氧化铵) (10g/100g), 23°C

醇类

- ✓ 异丙醇, 23°C
- ✓ 甲醇, 23°C
- ✓ 乙醇, 23°C

碳氢化合物

- ✓ n-乙烷, 23°C
- ✓ 甲苯, 23°C
- ✓ 异辛烷, 23°C

酮类

- ✓ 丙酮, 23°C

醚类

- ✓ (二)乙醚, 23°C

矿物油

- ✓ SAE 10W40号多效润滑油, 23°C
- ✗ SAE 10W40号多效润滑油, 130°C
- ✗ SAE 89/90号变速箱润滑油, 130°C
- ✓ 绝缘油, 23°C

标准燃油

- ✓ ISO 1817 燃油1号, 60°C
- ✓ ISO 1817 燃油2号, 60°C
- ✓ ISO 1817 燃油3号, 60°C
- ✓ ISO 1817 燃油4号, 60°C
- ✓ 不含酒精的标准燃油(优先使用C类ISO 1817 燃油), 23°C
- ✓ 含酒精的标准燃油(优先使用4号ISO 1817 燃油), 23°C
- ✓ 柴油(优先使用F类ISO 1817液体), 23°C
- ✓ 柴油(优先使用F类ISO 1817液体), 90°C
- ✗ 柴油(优先使用F类ISO 1817液体), >90°C

盐溶液

- ✓ 氯化钠溶液(10g/100g), 23°C
- ✗ 次氯化钠溶液 (10g/100g), 23°C
- ✓ 碳酸钠溶液 (20g/100g), 23°C
- ✓ 碳酸钠溶液 (2g/100g), 23°C
- ✗ 氯化锌溶液 (50g/100g), 23°C

其它

- ✓ 乙酸乙酯, 23°C
- ✗ 过氧化氢, 23°C
- ✗ DOT4号刹车油, 130°C
- ✗ 乙二醇水溶液 (50g/100g), 108°C
- ✓ 1g/100g 基苯氧- 聚环氧乙烷乙烯水溶液, 23°C
- ✓ 油酸 (50g/100g) + 橄榄油 (50g/100g), 23°C



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- ✓ 水, 23°C
- ✗ 去离子水, 90°C
- ✗ 酚溶液(5g/100g), 23°C

Symbols used:

- ✓ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).
- ✗ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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