



Crastin® SK602 BK851

THERMOPLASTIC POLYESTER RESIN

Crastin®热塑性聚酯的共性包括良好的机械性能和物理性能比如刚性和韧性、耐热、耐摩擦和耐磨耗、优异的表面性能和良好的着色性能。Crastin®热塑性聚酯具有优异的电绝缘特性，可制备耐高电弧规格。许多阻燃规格获得UL认证（V-0）。Crastin®热塑性聚酯通常具有很高的耐化学和耐热老化性能。Crastin®热塑性聚酯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24kJ/g）。废弃处理需遵守当地法规。

Crastin®热塑性聚酯通常应用于有苛刻要求的电子电气、汽车、机械工程、化学、家用电气和运动器材领域。

Crastin® SK602 BK851是一种15% 玻纤增强 PBT

总说明

树脂鉴别	PBT-GF15	ISO 1043
制品标识码	>PBT-GF15<	ISO 11469

流变性能

模塑收缩率, 平行	0.4 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.1 %	ISO 294-4, 2577
流动长度	360 mm	
流动长度-压力	80 MPa	
流动长度-宽厚比	2 mm	

机械性能

拉伸模量	5800 MPa	ISO 527-1/-2
断裂应力	98 MPa	ISO 527-1/-2
断裂伸长率	3.5 %	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	40 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	5.4 kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	5 kJ/m ²	ISO 180/1A
Poisson's ratio	0.35 -	

热性能

熔融温度, 10°C/min	225 °C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	55 °C	ISO 11357-1/-2
热变形温度, 1.80 MPa	192 °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, 电气性能, 6mm	130 °C	UL 746B
相对温度指数, 冲击, 0.75mm	115 °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, 冲击, 6mm	115 °C	UL 746B

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相对温度指数, 强度, 0.75mm	120 °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
相对温度指数, 强度, 6mm	120 °C	UL 746B

燃烧性能

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	3 mm	IEC 60695-11-10
UL注册	yes -	UL 94
灼热丝燃烧指数, 3mm	700 °C	IEC 60695-2-12
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	30 mm/min	ISO 3795 (FMVSS 302)

电性能

相对介电常数., 100Hz	3.7 -	IEC 62631-2-1
相对介电常数., 1MHz	3.6 -	IEC 62631-2-1
介质损耗因子, 100Hz	7 E-4	IEC 62631-2-1
介质损耗因子, 1MHz	172 E-4	IEC 62631-2-1
体积电阻率	>1E13 Ohm.m	IEC 62631-3-1
表面电阻率	1E14 Ohm	IEC 62631-3-2
介电强度	35 kV/mm	IEC 60243-1
相对漏电起痕指数	225 -	IEC 60112

其它性能

密度	1410 kg/m ³	ISO 1183
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VDA性能

有机化合物的排放	140 μgC/g	VDA 277
气味测试	3 class	VDA 270
雾化	0.1 mg	ISO 6452

注塑

建议干燥	是
干燥温度	120 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.04 %
优良熔体温度	250 °C
注塑 熔体温度	240 °C
注塑 熔体温度	260 °C
优良模具温度	80 °C

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模具温度	30 °C
模具温度	130 °C
保压范围	≥ 60 MPa
保压时间	3 s/mm
背压	As low as possible MPa
喷射温度	170 °C

耐化学性

酸类

- ✓ 醋酸 (5g/100g), 23°C
- ✓ 柠檬酸溶液 (10g/100g), 23°C
- ✓ 乳酸 (10g/100g), 23°C
- ✗ 盐酸 (36g/100g), 23°C
- ✗ 硝酸 (40g/100g), 23°C
- ✗ 硫酸 (38g/100g), 23°C
- ✗ 硫酸 (5g/100g), 23°C
- ✗ 铬酸溶液 (40g/100g), 23°C

碱类

- ✗ 氢氧化钠溶液 (35g/100g), 23°C
- ✓ 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

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- ✗ 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
- ✓ 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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