

Rynite® FR945 BK507

THERMOPLASTIC POLYESTER RESIN

Rynite® FR945 BK507是一种45% 玻纤/矿物增强, 阻燃, PET

<mark>总说明</mark> 树脂鉴别 制品标识码	PET-(MD+GF)45FR(17) >PET-(MD+GF)45FR(17)<	ISO 1043 ISO 11469
流变性能 模塑收缩率, 平行 模塑收缩率, 垂直	0.5 % 0.9 %	ISO 294-4, 2577 ISO 294-4, 2577
机械性能 拉伸模量 断裂应力 断裂伸长率 弯曲模量 弯曲强度 简支梁无缺口冲击强度, +23°C 简支梁缺口冲击强度, +23°C 简支梁缺口冲击强度, -40°C 悬臂梁缺口冲击强度, 23°C Poisson's ratio	12800 MPa 92 MPa 1.2 % 12500 MPa 140 MPa 20 kJ/m² 4 kJ/m² 3 kJ/m² 4 kJ/m² 0.33 -	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA
热性能 熔融温度, 10°C/min 热变形温度, 1.80 MPa 热变形温度, 0.45 MPa 相对温度指数, 电气性能, 0.75mm 相对温度指数, 电气性能, 1.5mm 相对温度指数, 电气性能, 3mm 相对温度指数, 冲击, 0.75mm 相对温度指数, 冲击, 1.5mm 相对温度指数, 冲击, 1.5mm 相对温度指数, 强度, 0.75mm 相对温度指数, 强度, 0.75mm 相对温度指数, 强度, 0.75mm 相对温度指数, 强度, 0.75mm	250 °C 200 °C 240 °C 150 °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 UL 746B UL 746B UL 746B UL 746B UL 746B UL 746B UL 746B UL 746B UL 746B

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燃烧性能

1.5mm名义厚度时的燃烧性	V-0 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-0 class	IEC 60695-11-10
测试用试样的厚度	0.81 mm	IEC 60695-11-10
UL注册	yes -	UL 94
厚度为h时的5V燃烧性	5VA class	IEC 60695-11-20
测试用试样的厚度	1.5 mm	IEC 60695-11-20
UL注册	yes -	UL 94
灼热丝燃烧指数, 0.75mm	960 °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, 3mm	960 °C	IEC 60695-2-12
灼热丝起燃温度, 0.75mm	825 °C	IEC 60695-2-13
灼热丝起燃温度, 1.5mm	825 °C	IEC 60695-2-13
灼热丝起燃温度, 3mm	925 °C	IEC 60695-2-13
FMVSS Class	В -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度:1毫米	<80 mm/min	ISO 3795 (FMVSS 302)

其它性能

密度 1850 kg/m³ ISO 1183

注塑

建议干燥	是	
干燥温度	120	°C
干燥时间,除湿干燥机	4 - 6	h
加工前水分含量	≤ 0.02 ^[1]	%
优良熔体温度	280	°C
注塑 熔体温度	270	°C
注塑 熔体温度	290	°C
螺杆大的切线速度	0.2	m/s
优良模具温度	110	°C
模具温度	100	_
模具温度	120 ^[2]	°C
保压范围	≥ 80	MPa
保压时间	4	s/mm
背压	As low as	MPa
	possible	
喷射温度	170	°C

[1]: At levels above 0.02%, strength and toughness will decrease, even though parts may not exhibit surface defects.

[2]: (6mm - 1mm thickness)

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典型数据

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