



Rynite® 830ER BK503

THERMOPLASTIC POLYESTER RESIN

Rynite® 830ER BK503 is a 30% Glass Reinforced, Polyethylene Terephthalate Developed for Encapsulation Applications

总说明

树脂鉴别	PET-IGF30	ISO 1043
制品标识码	>PET-IGF30<	ISO 11469

流变性能

模塑收缩率, 平行	0.1 %	ISO 294-4, 2577
模塑收缩率, 垂直	0.6 %	ISO 294-4, 2577

机械性能

拉伸模量	11000 MPa	ISO 527-1/-2
断裂应力	170 MPa	ISO 527-1/-2
断裂伸长率	2.2 %	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	60.9 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	9.9 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 -	

热性能

熔融温度, 10°C/min	250 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	225 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	247 °C	ISO 75-1/-2
相对温度指数, 电气性能, 0.75mm	140 °C	UL 746B
相对温度指数, 电气性能, 1.5mm	140 °C	UL 746B
相对温度指数, 电气性能, 3mm	140 °C	UL 746B
相对温度指数, 冲击, 0.75mm	140 °C	UL 746B
相对温度指数, 冲击, 1.5mm	140 °C	UL 746B
相对温度指数, 冲击, 3mm	140 °C	UL 746B
相对温度指数, 强度, 0.75mm	140 °C	UL 746B
相对温度指数, 强度, 1.5mm	140 °C	UL 746B
相对温度指数, 强度, 3mm	140 °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	0.85 mm	IEC 60695-11-10
UL注册	yes -	UL 94
灼热丝燃烧指数, 3mm	825 °C	IEC 60695-2-12



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灼热丝起燃温度, 3mm	800 °C	IEC 60695-2-13
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	<80 mm/min	ISO 3795 (FMVSS 302)

电性能

相对介电常数., 100Hz	4.3 -	IEC 62631-2-1
相对介电常数., 1MHz	3.9 -	IEC 62631-2-1
介质损耗因子, 100Hz	20 E-4	IEC 62631-2-1
介质损耗因子, 1MHz	148 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	36 kV/mm	IEC 60243-1
相对漏电起痕指数	250 -	IEC 60112
介电强度, 短期	23 kV/mm	IEC 60243-1

其它性能

密度	1590 kg/m ³	ISO 1183
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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	285 °C
注塑 熔体温度	280 °C
注塑 熔体温度	300 °C
螺杆大的切线速度	0.2 m/s
优良模具温度	140 °C
模具温度	120 °C
模具温度	140 ^[2] °C
保压范围	≥ 80 MPa
保压时间	4 s/mm
背压	As low as possible MPa
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)

成型

注塑 When lower mold temperatures are used, the initial warpage and shrinkage will be lower, but the surface appearance will be poorer and the dimensional change may be greater when parts are subsequently heated.



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