



Rynite® 815ER BK503

THERMOPLASTIC POLYESTER RESIN

Rynite® 815ER BK503 is a 15% Glass Reinforced, Toughened, Polyethylene Terephthalate Developed for Encapsulation Applications

总说明

树脂鉴别	PET-IGF15	ISO 1043
制品标识码	>PET-IGF15<	ISO 11469

流变性能

熔体体积流动速度, MVR	22 cm ³ /10min	ISO 1133
熔体质量流动速率	26 g/10min	ISO 1133
温度	280 °C	ISO 1133
负荷	5 kg	ISO 1133
熔体质量流率, 温度	280 °C	ISO 1133
熔体质量流率, 载荷	5 kg	ISO 1133
模塑收缩率, 平行	0.3 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.0 %	ISO 294-4, 2577

机械性能

拉伸模量	4300 MPa	ISO 527-1/-2
断裂应力	82 MPa	ISO 527-1/-2
断裂伸长率	5 %	ISO 527-1/-2
弯曲模量	3700 MPa	ISO 178
弯曲强度	135 MPa	ISO 178
简支梁缺口冲击强度, +23°C	11 kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	11 kJ/m ²	ISO 180/1A
Poisson's ratio	0.36 -	

热性能

熔融温度, 10°C/min	250 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	210 °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	120 °C	UL 746B
相对温度指数, 冲击, 1.5mm	120 °C	UL 746B
相对温度指数, 冲击, 3mm	120 °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



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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	0.81 mm	IEC 60695-11-10
UL注册	yes -	UL 94
灼热丝起燃温度, 3mm	775 °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)

其它性能

密度	1390 kg/m ³	ISO 1183
熔体密度	1170 kg/m ³	

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	285 °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	95 °C
模具温度	75 °C
模具温度	95 °C
保压范围	≥ 80 MPa
保压时间	4 s/mm
背压	As low as 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.

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