



Rynite® HR540SUV BK544

THERMOPLASTIC POLYESTER RESIN

Rynite® HR540SUV BK544是一种40% 玻纤增强, 耐水解, 耐UV, PET用于挤出和注塑成型

总说明

树脂鉴别	PET-GF40	ISO 1043
制品标识码	>PET-GF40<	ISO 11469

流变性能

熔体质量流动速率	20 g/10min	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	0.8 %	ISO 294-4, 2577
熔体粘度	200 Pa.s	ISO 11443

机械性能

拉伸模量	13200 MPa	ISO 527-1/-2
断裂应力	140 MPa	ISO 527-1/-2
断裂伸长率	2 %	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	53 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	10 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 -	

热性能

熔融温度, 10°C/min	247 °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, 1.5mm	75 °C	UL 746B
相对温度指数, 电气性能, 3mm	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, 强度, 1.5mm	75 °C	UL 746B
相对温度指数, 强度, 3mm	75 °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
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	<80 mm/min	ISO 3795 (FMVSS 302)



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电性能

体积电阻率	1.3E8 Ohm.m	IEC 62631-3-1
表面电阻率	6.5E9 Ohm	IEC 62631-3-2
相对漏电起痕指数	250 -	IEC 60112
介电强度, 短期	19 kV/mm	IEC 60243-1

其它性能

密度	1620 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	110 °C
模具温度	100 °C
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 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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