



Rynite® 530HTE BK503

THERMOPLASTIC POLYESTER RESIN

Rynite® 530HTE BK503是一种30% 玻纤增强 PET具有优异的高温电气性能

总说明

树脂鉴别	PET-GF30	ISO 1043
制品标识码	>PET-GF30<	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
模塑收缩率	0.45 %	ISO 294-4
模塑收缩率	0.1 %	ISO 294-4

机械性能

拉伸模量	11000 MPa	ISO 527-1/-2
断裂应力	160 MPa	ISO 527-1/-2
断裂伸长率	1.9 %	ISO 527-1/-2
压缩强度	230 MPa	ISO 604
简支梁无缺口冲击强度, +23°C	42 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	8.9 kJ/m ²	ISO 179/1eA
洛氏硬度, Rockwell	120 -	ISO 2039-2
球压痕硬度	221 MPa	ISO 2039-1
Poisson's ratio	0.34 -	

热性能

熔融温度, 10°C/min	252 °C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	90 °C	ISO 11357-1/-2
热变形温度, 1.80 MPa	230 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	251 °C	ISO 75-1/-2
固态导热系数	0.29 W/(m K)	

燃烧性能

灼热丝燃烧指数, 3mm	800 °C	IEC 60695-2-12
灼热丝起燃温度, 3mm	775 °C	IEC 60695-2-13
灼热丝温度, 无火, 1mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 1.5mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 2mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 3mm	825 °C	IEC 60335-1
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

相对介电常数., 100Hz	4.3 -	IEC 62631-2-1
相对介电常数., 1MHz	3.8 -	IEC 62631-2-1
介质损耗因子, 100Hz	18 E-4	IEC 62631-2-1
介质损耗因子, 1MHz	146 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	200 -	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
吸水性, 浸泡 24小时	0.05 %	类似ISO 62

VDA性能

雾化	mg	ISO 6452
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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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