



Rynite® FR533NH BK507 (PRELIMINARY)

THERMOPLASTIC POLYESTER RESIN

Rynite® 热塑性聚酯的共性包括良好的机械和物理性能，例如强度和刚性之间良好的平衡、尺寸稳定性、耐蠕变、耐热老化、高表面光泽和固有地高温下良好的电气性能。可在很宽泛的温度范围内加工，有很好的流动性能。

Rynite® 热塑性聚酯通常应用于要求严苛的汽车、电子电器工业，成功取代金属、热固性材料和其他热塑性聚合物。

Rynite® FR533NH BK507是一种33% 玻纤增强, 阻燃, 无卤, PET

总说明

树脂鉴别	PET-GF33FR(40)	ISO 1043
制品标识码	>PET-GF33FR(40)<	ISO 11469

流变性能

模塑收缩率, 平行	0.4 %	ISO 294-4, 2577
模塑收缩率, 垂直	0.7 %	ISO 294-4, 2577

机械性能

拉伸模量	12900 MPa	ISO 527-1/-2
断裂应力	82 MPa	ISO 527-1/-2
断裂伸长率	0.9 %	ISO 527-1/-2
弯曲模量	13100 MPa	ISO 178
弯曲强度	137 MPa	ISO 178
简支梁缺口冲击强度, +23°C	9 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	9 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 -	

热性能

熔融温度, 10°C/min	249 °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	240 °C	ISO 75-1/-2
线性热膨胀系数, 平行, -40-23°C	16 E-6/K	ISO 11359-1/-2
线膨胀系数, 平行	18 E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行, 55-160°C	12 E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直, -40-23°C	54 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	78 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直, 55-160°C	93 E-6/K	ISO 11359-1/-2
相对温度指数, 电气性能, 0.4mm	155 °C	UL 746B
相对温度指数, 电气性能, 0.75mm	155 °C	UL 746B
相对温度指数, 电气性能, 1.5mm	155 °C	UL 746B
相对温度指数, 电气性能, 3mm	155 °C	UL 746B
相对温度指数, 冲击, 0.75mm	160 °C	UL 746B
相对温度指数, 冲击, 1.5mm	170 °C	UL 746B
相对温度指数, 冲击, 3mm	170 °C	UL 746B



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相对温度指数, 强度, 0.75mm	160 °C	UL 746B
相对温度指数, 强度, 1.5mm	170 °C	UL 746B
相对温度指数, 强度, 3mm	170 °C	UL 746B

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	0.4 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	0.75 mm	IEC 60695-11-20
UL注册	yes -	UL 94
Railway classification	R22 -	EN 45545-2
Railway classification rating	HL1 -	EN 45545-2

电性能

体积电阻率	1E13 Ohm.m	IEC 62631-3-1
介电强度	31 kV/mm	IEC 60243-1

其它性能

密度	1600 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	280 °C
注塑 熔体温度	270 °C
注塑 熔体温度	280 °C
模具温度	120 °C
模具温度	140 ^[2] °C

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

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

典型数据

添加剂 阻燃剂, 阻燃剂, 无卤/无红磷阻燃



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Revised: 2021-11-30

Page: 3 of 3

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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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