



Rynite® RE19051 BK507

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® RE19051 BK507是一种40% 玻纤/矿物增强, 阻燃, PET

总说明

树脂鉴别	PET-(GF+MD)40FR(16)	ISO 1043
制品标识码	>PET-(GF+MD)40FR(16)<	ISO 11469

流变性能

模塑收缩率, 平行	0.2 %	ISO 294-4, 2577
模塑收缩率, 垂直	0.9 %	ISO 294-4, 2577

机械性能

拉伸模量	11000 MPa	ISO 527-1/-2
断裂应力	110 MPa	ISO 527-1/-2
断裂伸长率	1.7 %	ISO 527-1/-2
弯曲模量	9700 MPa	ISO 178
弯曲强度	170 MPa	ISO 178
简支梁缺口冲击强度, +23°C	6.5 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 -	

热性能

熔融温度, 10°C/min	247 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	214 °C	ISO 75-1/-2
线性热膨胀系数, 平行, -40-23°C	23 E-6/K	ISO 11359-1/-2
线膨胀系数, 平行	23 E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行, 55-160°C	14 E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直, -40-23°C	61 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	110 E-6/K	ISO 11359-1/-2
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	155 °C	UL 746B
相对温度指数, 冲击, 1.5mm	155 °C	UL 746B
相对温度指数, 冲击, 3mm	155 °C	UL 746B
相对温度指数, 强度, 0.75mm	155 °C	UL 746B
相对温度指数, 强度, 1.5mm	155 °C	UL 746B
相对温度指数, 强度, 3mm	155 °C	UL 746B



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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	0.81 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	1.5 mm	IEC 60695-11-20
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)

电性能

体积电阻率	5E12 Ohm.m	IEC 62631-3-1
表面电阻率	>1E15 Ohm	IEC 62631-3-2

其它性能

密度	1730 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	290 °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
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)



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典型数据

添加剂

阻燃剂

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