



Rynite® 935 BK505

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® 935 BK505是一种35% 玻纤增强 PET

总说明

树脂鉴别	PET-(MD+GF)35	ISO 1043
制品标识码	>PET-(MD+GF)35<	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	0.7 %	ISO 294-4, 2577

机械性能

拉伸模量	10200 MPa	ISO 527-1/-2
断裂应力	82 MPa	ISO 527-1/-2
断裂伸长率	2 %	ISO 527-1/-2
弯曲模量	9300 MPa	ISO 178
弯曲强度	132 MPa	ISO 178
简支梁无缺口冲击强度, +23°C	25 kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -40°C	21.5 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	5.5 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	4 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	4 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 -	

热性能

熔融温度, 10°C/min	252 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	200 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	240 °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	140 °C	UL 746B
相对温度指数, 冲击, 1.5mm	140 °C	UL 746B
相对温度指数, 冲击, 3mm	140 °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	0.75 mm	IEC 60695-11-10
UL注册	yes -	UL 94
灼热丝燃烧指数, 0.75mm	775 °C	IEC 60695-2-12
灼热丝燃烧指数, 1.5mm	775 °C	IEC 60695-2-12
灼热丝燃烧指数, 3mm	825 °C	IEC 60695-2-12
灼热丝起燃温度, 0.75mm	800 °C	IEC 60695-2-13
灼热丝起燃温度, 1.5mm	800 °C	IEC 60695-2-13
灼热丝起燃温度, 3mm	850 °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)

电性能

相对介电常数, 1MHz	4 -	IEC 62631-2-1
介质损耗因子, 1MHz	150 E-4	IEC 62631-2-1
介电强度, 短期	25 kV/mm	IEC 60243-1

其它性能

密度	1580 kg/m ³	ISO 1183
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VDA性能

雾化	0.1 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	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



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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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