



Rynite® FG530 NC011

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® FG530 NC011是一种30% 玻纤增强 PET用于与食品接触的应用

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	0.2 %	ISO 294-4, 2577
模塑收缩率, 垂直	0.8 %	ISO 294-4, 2577

机械性能

拉伸模量	10500 MPa	ISO 527-1/-2
断裂应力	162 MPa	ISO 527-1/-2
断裂伸长率	2.1 %	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	40 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	11 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 -	

热性能

熔融温度, 10°C/min	257 °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	242 °C	ISO 75-1/-2

燃烧性能

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

相对漏电起痕指数	250	IEC 60112
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其它性能

密度	1570 kg/m ³	ISO 1183
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VDA性能

有机化合物的排放	16 □ gC/g	VDA 277
气味测试	3 class	VDA 270
雾化	mg	ISO 6452

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	130 °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 MPa 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)

典型数据

添加剂	脱模助剂
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