Rynite® RE5231 BK533

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，有极好的流动性能。
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® RE5231 BK533是一种35% 玻纤/矿物增强 PET

总说明

树脂鉴别	PET-(GF+MD)35	ISO 1043
制品标识码	>PET-(GF+MD)35<	ISO 11469

流变性能

模塑收缩率, 平行	0.3	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.6	%	ISO 294-4, 2577

机械性能

拉伸模量	10000	MPa	ISO 527-1/-2
断裂应力	90	MPa	ISO 527-1/-2
断裂伸长率	2	%	ISO 527-1/-2
弯曲模量	8800	MPa	ISO 178
弯曲强度	145	MPa	ISO 178
简支梁无缺口冲击强度, +23°C	35	kJ/m²	ISO 179/1eU
Poisson's ratio	0.34	-	

热性能

熔融温度, 10°C/min	250	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	216	°C	ISO 75-1/-2
线性热膨胀系数, 平行，-40-23°C	20	E-6/K	ISO 11359-1/-2
线膨胀系数, 平行	29	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行，55-160°C	24	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直，-40-23°C	46	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	79	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

燃烧性能

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
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

体积电阻率	>1E13	Ohm.m	IEC 62631-3-1
表面电阻率	>1E15	Ohm	IEC 62631-3-2
介电强度	50	kV/mm	IEC 60243-1

其它性能

密度	1600	kg/m³	ISO 1183

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	≤ 0.01[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	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)

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