

Rynite® 940 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® 940 BK505是一种40% 玻纤/矿物增强 PET

<mark>总说明</mark> 树脂鉴别 制品标识码	PET-(GF+MD)40 >PET-(GF+MD)40<	ISO 1043 ISO 11469
流变性能 模塑收缩率, 平行 模塑收缩率, 垂直	0.2 % 0.7 %	ISO 294-4, 2577 ISO 294-4, 2577
机械性能 拉伸模量 断裂应力 断裂伸长率 弯曲模量 简支梁无缺口冲击强度, +23°C 简支梁无缺口冲击强度, -40°C 简支梁缺口冲击强度, +23°C 简支梁缺口冲击强度, -40°C Poisson's ratio	12500 MPa 110 MPa 1.8 % 13000 MPa 35 kJ/m² 35 kJ/m² 7 kJ/m² 6 kJ/m² 0.33 -	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA
热性能 熔融温度, 10°C/min 热变形温度, 1.80 MPa 热变形温度, 0.45 MPa 线性热膨胀系数, 平行, -40-23°C 线膨胀系数, 平行, 55-160°C 线性热膨胀系数, 垂直, -40-23°C 线膨胀系数, 垂直 线膨胀系数, 垂直 线膨胀系数, 垂直 相对温度指数, 电气性能, 0.75mm 相对温度指数, 强度, 0.75mm	250 °C 220 °C 241 °C 22 E-6/K 15 E-6/K 6 E-6/K 54 E-6/K 60 E-6/K 84 E-6/K 75 °C 75 °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2 ISO 11359-1/-2 ISO 11359-1/-2 ISO 11359-1/-2 UL 746B UL 746B

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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
UL注册	yes -	UL 94
灼热丝燃烧指数, 3mm	925 °C	IEC 60695-2-12
灼热丝起燃温度, 3mm	900 °C	IEC 60695-2-13
FMVSS Class	В -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度:1毫米	<80 mm/min	ISO 3795 (FMVSS 302)

电性能

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相对介电常数., 100Hz	4.2 -	IEC 62631-2-1
相对介电常数., 1MHz	3.9 -	IEC 62631-2-1
介质损耗因子, 100Hz	70 E-4	IEC 62631-2-1
介质损耗因子, 1MHz	146 E-4	IEC 62631-2-1
体积电阻率	1E13 Ohm.m	IEC 62631-3-1
表面电阻率	1E14 Ohm	IEC 62631-3-2
介电强度	33 kV/mm	IEC 60243-1
相对漏电起痕指数	250 -	IEC 60112

其它性能

密度 1640 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	$\leq 0.02^{[1]}$	%
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	_
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	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)

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典型数据

添加剂 脱模助剂

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