



Rynite® 940 NC010

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 NC010是一种40% 玻纤/矿物增强 PET

总说明

树脂鉴别	PET-(GF+MD)40	ISO 1043
制品标识码	>PET-(GF+MD)40<	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
模塑收缩率	0.2 %	ISO 294-4
模塑收缩率	0.05 %	ISO 294-4

机械性能

拉伸模量	12000 MPa	ISO 527-1/-2
断裂应力	110 MPa	ISO 527-1/-2
断裂伸长率	2 %	ISO 527-1/-2
弯曲模量	12000 MPa	ISO 178
弯曲强度	200 MPa	ISO 178
压缩强度	180 MPa	ISO 604
剪切强度	60 MPa	ASTM D 732
简支梁无缺口冲击强度, +23°C	30 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	7 kJ/m ²	ISO 179/1eA
洛氏硬度, Rockwell	115 -	ISO 2039-2
Poisson's ratio	0.33 -	

热性能

熔融温度, 10°C/min	250 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	220 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	240 °C	ISO 75-1/-2
线膨胀系数, 平行	25 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	60 E-6/K	ISO 11359-1/-2



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燃烧性能

灼热丝燃烧指数, 1mm	750 °C	IEC 60695-2-12
灼热丝燃烧指数, 2mm	775 °C	IEC 60695-2-12
灼热丝燃烧指数, 3mm	960 °C	IEC 60695-2-12
灼热丝起燃温度, 1mm	750 °C	IEC 60695-2-13
灼热丝起燃温度, 2mm	775 °C	IEC 60695-2-13
灼热丝起燃温度, 3mm	875 °C	IEC 60695-2-13
灼热丝温度, 无火, 1mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 2mm	775 °C	IEC 60335-1
灼热丝温度, 无火, 3mm	850 °C	IEC 60335-1
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	22 mm/min	ISO 3795 (FMVSS 302)

电性能

相对介电常数., 100Hz	3.8 -	IEC 62631-2-1
相对介电常数., 1MHz	3.7 -	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	150 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	38 kV/mm	IEC 60243-1

其它性能

吸湿性, 2mm	0.1 %	类似ISO 62
吸水性, 2mm	0.75 %	类似ISO 62
密度	1640 kg/m ³	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	≤ 0.02 ^[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 MPa



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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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