OUPONT >

Rynite[®] 545 BK504

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® 545 BK504是一种45% 玻纤增强 PET

总说明		
树脂鉴别	PET-GF45	ISO 1043
制品标识码	>PET-GF45<	ISO 11469
流变性能		
粘数.	55 cm³/g	ISO 307, 1157, 1628
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	15500 MPa	ISO 527-1/-2
断裂应力	175 MPa	ISO 527-1/-2
断裂伸长率	1.9 %	ISO 527-1/-2
弯曲模量	14000 MPa	ISO 178
简支梁无缺口冲击强度, +23°C	60 kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	11 kJ/m²	ISO 179/1eA
Poisson's ratio	0.33 -	
热性能		
熔融温度, 10°C/min	249 °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	230 °C	ISO 75-1/-2
线膨胀系数, 平行	17 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	85 E-6/K	ISO 11359-1/-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 相对温度指数,强度, 2mm	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 测试用试样的厚度 UL注册 厚度为h时的燃烧性 测试用试样的厚度 UL注册 灼热丝燃烧指数,3mm 灼热丝起燃温度,3mm FMVSS Class 燃烧速率,厚度:1毫米	HB class 1.5 mm yes - HB class 0.75 mm yes - 900 °C 825 °C B - <80 mm/min	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-2-12 IEC 60695-2-13 ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)
电性能 相对介电常数., 100Hz 相对介电常数., 1MHz 介质损耗因子, 100Hz 介质损耗因子, 1MHz 体积电阻率 表面电阻率 介电强度 相对漏电起痕指数	4.5 - 4.2 - 214 E-4 136 E-4 >1E13 Ohm.m 1E15 Ohm 32 kV/mm 225 -	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112
其它性能 ^{密度} VDA性能	1700 kg/m³	ISO 1183
雾化	mg	ISO 6452
注塑 建议干燥 干燥温度 干燥时间,除湿干燥机 加工前水分含量 优良熔体温度 注塑 熔体温度 注塑 熔体温度 螺杆大的切线速度 优良模具温度 模具温度 模具温度 保压范围 保压时间	足 120 °C 4 - 6 h ≤ 0.02 ^[1] % 285 °C 280 °C 300 °C 0.2 m/s 120 °C 110 °C 130 ^[2] °C ≥ 80 MPa 4 s/mm	

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背压

喷射温度

As low as MPa possible 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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