

DuPont™ Zytel® 3D1000FL NC010

杜邦高性能3D打印材料

产品信息

Zytel® 3D1000FL NC010 是用于熔融沉积式 3D 打印的聚酰胺线材，适用于多种不同配置的打印机类型。

材料性能	数值	单位	测试标准
密度	1.09	g/cm ³	ISO 1183
熔点, 10°C /min	198	°C	ISO 11357-1/-3
打印产品性能	数值	单位	测试标准
屈服强度	55	MPa	ISO 527-1/-2 (Type 5A)
屈服应变	5	%	ISO 527-1/-2 (Type 5A)
断裂强度	40	MPa	ISO 527-1/-2 (Type 5A)
断裂应变	15	%	ISO 527-1/-2 (Type 5A)
拉伸模量	1600	MPa	ISO 527-1/-2 (Type 5A)
悬臂梁缺口冲击强度	3	kJ/m ²	ISO 180/A
悬臂梁无缺口强度	30	kJ/m ²	ISO 180/U
热变形温度, 0.45Mpa	105	°C	ISO 75-1/-2

以上数据是基于开发中的样本，可能会有变动。

DuPont™ Zytel® 3D1000FL 能够适用于多种不同配置的打印机。不同的打印机、切片或打印装置、测试条件、环境等因素会导致的结果可能不同。

以上数据是基于直驱打印机的打印样品，打印前，线材需在 80-90°C 温度下真空干燥 12-24 小时。打印机设置如下：

喷嘴温度：265-275°C；

打印平台温度：85°C；打印速度：30 mm / sec；

冷却风扇：关；填充：100%对角线；流量：100%；回缩速度：10 mm / sec；

回缩距离：1 mm；

测试之前样品用防水铝箔袋包装并进行真空密封后保存。测试是在 23 ± 2°C 和 50 ± 5 % RH 相对湿度的环境中进行。

The above data are for the developmental sample and are subject to change as the product is scaled up.

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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Revised: 2018-01-03

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