PRODUCT INFORMATION

DuPont™ Hytrel® 3D4000FL NC010

杜邦高性能3D打印材料

产品信息				
Hytrel® 3D4000FL NC010 是用于熔融沉积式 3D 打印的热塑性弹性体线材。				
材料性能	**数值**		**单位**	**测试标准**
密度	1.16		g/cm^3	ISO 1183
熔点，10℃ /min	150		℃	ISO 11357-1/-3
维卡软化温度，50℃ / h，10N	105		℃	ISO 306
硬度 , Shore D (max)	40		-	ISO 7619-1
打印产品性能	**平面**	**垂直**	**单位**	**测试标准**
断裂拉伸强度	19	13	MPa	ISO 527-1/-2 (Type 1BA)
10%应变下拉伸强度	4	4	MPa	ISO 527-1/-2 (Type 1BA)
50%应变下拉伸强度	7	7	MPa	ISO 527-1/-2 (Type 1BA)
标称断裂伸长率	≥ 500	≥ 300	%	ISO 527-1/-2 (Type 1BA)
拉伸模量	50	50	MPa	ISO 527-1/-2 (Type 1A)
缺口冲击强度	No Break	No Break	kJ/m^2	ISO 180/A
非缺口冲击强度	No Break	No Break	kJ/m^2	ISO 180/1U

以上数据针对开发中的样本，可能会有变动。

DuPont™ Hytrel® 3D4000FL 适用于多种不同配置的打印机类型。不同的打印机、切片或打印装置、测试条件、环境等因素导致的结果可能不同。

上述报告中数据源自直驱打印机打印样品，打印机设置：
喷嘴温度：230-250℃；
打印平台温度：40℃；打印速度：15 mm / sec;
冷却风扇：100%；填充：100%对角线；流量：100%；回缩速度：10 mm / sec;
回缩距离：1 mm;
打印方向：水平和垂直。

在测试前，测试样品需在 23℃和 50%相对湿度测试条件下调节放置大于 40 小时，然后在相同条件下进行测试。

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.
The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents. Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer representative and read Medical Caution H-50103-5.

Revised: 2018-01-03

To find out more, visit www.3DPrintingSolutions.DuPont.com or contact nearest DuPont location.

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PRODUCT INFORMATION

DuPont™ Hytrel® 3D4100FL NC010

杜邦高性能3D打印材料

产品信息				
Hytrel® 3D4100FL NC010 是用于熔融沉积式 3D 打印的热塑性弹性体线材。				
材料性能	**数值**		**单位**	**测试标准**
密度	1.25		g/cm^3	ISO 1183
熔点，10˚C /min	165		˚C	ISO 11357-1/-3
维卡软化温度，50˚C / h，10N	130		˚C	ISO 306
硬度 , Shore D (max)	60			ISO 7619-1
打印产品性能	**平面**	**垂直**	**单位**	**测试标准**
断裂拉伸强度	≥ 20	17	MPa	ISO 527-1/-2 (Type 1BA)
10%应变下拉伸强度	10	10	MPa	ISO 527-1/-2 (Type 1BA)
50%应变下拉伸强度	14	13	MPa	ISO 527-1/-2 (Type 1BA)
标称断裂伸长率	≥ 250	≥ 250	%	ISO 527-1/-2 (Type 1BA)
拉伸模量	130	130	MPa	ISO 527-1/-2 (Type 1A)
缺口冲击强度	No Break	8	kJ/m^2	ISO 180/A
非缺口冲击强度	No Break	15	kJ/m^2	ISO 180/1U

以上数据针对开发中的样本，可能会有变动。

DuPont™ Hytrel® 3D4100FL 适用于多种不同配置的打印机类型。不同的打印机、切片或打印装置、测试条件、环境等因素导致的结果可能不同。

上述报告中数据源自直驱打印机打印样品，打印机设置：
喷嘴温度：215-230˚C ;
打印平台温度：110˚C; 打印速度：20mm/sec
冷却风扇：100% ; 填充：100%对角线 ; 流量：100% ; 回缩速度：10 mm / sec;
回缩距离：1 mm;
打印方向：水平和垂直
在测试前 , 测试样品需在 23˚C和 50%相对湿度测试条件下调节放置大于 40 小时 , 然后在相同条件下进行测试。

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