



Spunbonded Fabrics

# Dilla®

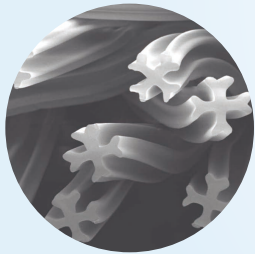
modified cross-section fiber

## 特殊構造繊維の高機能不織布

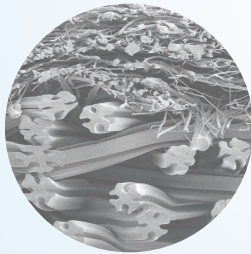
## High functionality nonwoven fabric made of filaments having special structures

Dilla は、スパンボンド不織布において、他に類をみない異型断面と高繊維径を有するポリエステル長繊維からなり、不織布としての剛性や通気性に優れた高機能不織布です。繊維の長さ方向に複数の溝を有するため、繊維群の空隙部が特殊な三次元構造となっています。これらの特徴を生かして、フィルター基材用途を中心とした、産業資材用途、農業資材用途、土木資材用途、また生活資材用途などに幅広く使用して頂けます。

Having a modified cross-section shape that is not found in any other kind of spunbond nonwoven and made of extremely thick polyester filaments, "Dilla" is high functionality nonwoven fabric with excellent stiffness and permeability. The fabric has multiple grooves in the longitudinal direction of filament, forming special three-dimensional structures as coarse internal pore structure on the surface. These features make "Dilla" suitable for use mainly as reinforcement for filter in a wide range of applications such as industrial materials, agricultural materials, civil engineering materials, and consumer products.



不織布断面  
Cross-section photo of nonwoven fabrics



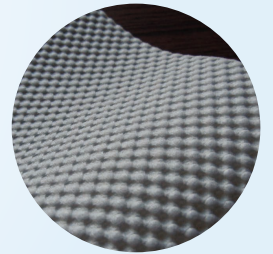
Dillaの除塵の捕集状態  
Surface of "Dilla" after filtration (as filter media)



フィルター材 (Dillaとメルトブロン)  
Cross-section photo of Coarse Denir MARIX and MB nonwoven layered product (as reinforcement for filter)



ワイピングクロス (Dillaと短繊維不織布複合)  
Wiping cloth



Dillaと短繊維不織布複合材凹凸加工  
Embossed composite material of Dilla and Short fiber non-woven fabric

## 特徴 Features

- ポリエステル長繊維 100%  
Made of 100% polyester filaments
- 高繊維度、高異型度の繊維で構成  
Very thick filaments having a highly modified shape
- 高通気性  
High level of permeability of gas and liquid
- 低発塵  
Low dust generation

## 用途 Applications

- 空気及び液体フィルター  
Gas and liquid filters
- PTFE膜、メルトブロン不織布等の補強材  
Base material of PTFE membrane and meltblown nonwoven fabrics
- ワイピングクロス用基材  
Wiping cloth

## 代表銘柄標準物性 Physical properties of typical item

試験方法 (厚みは除く) : JIS L 1913  
Test Method (except Thickness) : JIS L 1913

銘柄 Item No.	目付 Weight g/m <sup>2</sup>	厚み (10kpa 荷重) Thickness (@10kpa)	引裂強度 (ストリップ法) Tensile Strength (Cut Strip)		引裂強度 (ペンジュラム法) Tear Strength (Pendulum)	通気度 (フラジール法 @125pa) Air Permeability (Frazier @125pa)	
		mm	N/50mm	ヨコ CD <sup>*2</sup>	N	cm <sup>3</sup> /cm <sup>2</sup> /sec	cfm/ft <sup>2</sup>
		JIS 1096	タテ MD <sup>*1</sup>	ヨコ CD <sup>*2</sup>	タテ MD	JIS1913	ASTM D737
D0403WPO	40	0.34	105	65	3.0	550	1080
D0503WPO	50	0.39	130	85	4.0	380	750
D0603WPO	60	0.43	160	105	4.5	300	590
D0703WPO	70	0.45	180	120	5.0	250	490
D0903WPO	90	0.49	250	175	6.5	160	320
D1203WPO	120	0.55	340	220	9.0	120	240

\*1 MD (machine direction)

\*2 CD (cross direction)

※上記の物性値は、「Dilla」の代表的な試料の実測値であり保証値ではありません。  
These data are offered only as helpful suggestions for experimental processing you may conduct.

**UNITIKA**  
We Realize It!