

Don & Low | Filtration

Filter Carriers & Supporting Scrim

Technical Datasheet



Don & Low
MEMBER OF THRACE GROUP

Filter carriers or supporting scrims are key applications of Daltex® Lowbond™ and Lowbond™ Ultra, especially in air filters. With a strong tear, puncture and abrasion resistant structure, our nonwovens provide finer filter media with support and stability without compromising on air permeability.

Our manufacturing process produces materials with air permeability values up to 60% higher when compared to other market leading spunbond nonwovens, resulting in lower energy consumption in powered filter applications.

Product Features

- ▶ Excellent air permeability
- ▶ Optimum fabric softness
- ▶ Outstanding support for filter media
- ▶ Reduced air-flow resistance in both surface and depth filters
- ▶ Introduction of bulk into the fabric for pre-filtration
- ▶ Wide range of weights, roll widths and lengths available
- ▶ Different colours and additives available
- ▶ Food and skin contact approved

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	Test Method	Units	Lowbond™ (2AR)	Lowbond™ Ultra (2U2)
Fabric weight	NWSP 130.1	g/m²	40	40 50 60
Air Permeability	NWSP 070.1	l/m²/s	4500	4900 4000 3400
Fabric Thickness	NWSP 120.1	mm	0.5	0.6 0.7 0.7
Filament Size		µm	22	22 22 22
Dust Holding Capacity @ +50Pa, 16cm/s *	DIN 71460-1	g/m²	46	41 - 39
Dust Holding Capacity @ +50Pa, 20cm/s *	DIN 71460-1	g/m²	35	53 68
Fractional Collection Efficiency * 16cm/s (New)	DIN 71460-1	%	0.5 µm	25 36 17
			1.0 µm	26 36 18
			3µm	37 44 44
			5µm	53 57 73
			10 µm	55 71 74
Fractional Collection Efficiency * @ +50Pa 16cm/s (After Loading)	DIN 71460-1	%	0.5 µm	36 41 49
			1.0 µm	48 57 61
			3µm	89 93 96
			5µm	94 96 99
			10 µm	98.4 >99.5 >99.5
Filter Classification	EN779:2012		M5	G4

* Quoted values based on limited testing

Other Lowbond weights are available upon request

MP = machine direction, CD = cross/transverse direction

Performance in Appliance

Dust Holding (g flour)	40g/m ² Lowbond Pre-filter / 64g/m ² Microfilter Air Flow (l/s)	38g/m ² Competitor Pre-filter / 64g/m ² Microfilter Air Flow (l/s)
0	30.0	29.7
100	25.3	22.5
250	19.1	17.7
400	15.8	14.0
700	10.2	8.9



Polypropylene is recyclable. Mechanical recycling is the primary option, depending of the requirements of the application and the intended article specification. It can also be valorised for energy recovery, its high calorific value is around 44 Mj/kg. Polyolefins are neither biodegradable nor compostable.



All products are manufactured under BS EN ISO 9001.

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