

Technical Datasheet

Meltblown TPU Apparel fabrics are soft to the touch, durable and breathable, which makes it ideally suited for performance wear applications. TPU (Thermoplastic Polyurethane) has natural water repellence, which as a nonwoven fabric gives the feature of low liquid absorption and quick drying.

Bespoke colours and melt additives are available for enhanced fabric properties.

	Test Method	Meltblown TPU Apparel				
Fabric weight (g/m²)	NWSP 130.1	35	55	80*	85	
Tensile Strength (N)	NWSP 110.4	MD	25	35	64	65
		CD	15	25	41	40
Elongation (%)	NWSP 110.4	MD	500	500	400	500
		CD	450	450	400	450
Air permeability (l/m²/s)	NWSP 070.1	850	450	170	250	
Thickness (mm)	NWSP 120.1	0.28	0.38	0.21	0.45	
Water Vapour Permeability		640 g/m ² . 24hr		WVP Index 97.3 %		

*compacted - surface bonded for improved wear resistance.

Customer Advice

Don & Low Ltd do not recommend that Meltblown TPU Apparel be used in any category of medical device or in any food contact application. Other grades of TPU, suitable for these applications, are available and enquiries should be sent to enquiries@donlow.co.uk. This fabric is a development product that has been successfully trialled in limited quantities on our production equipment. All dimensions and capacities quoted are approximate and the values provided are either based on theoretical data or a limited number of tests and should not be read as a final specification. To approve this as a full production grade and integrate it into our ISO 9001 system there are a number of steps that may still need to be taken. This could involve optimisation of process conditions or inclusion of a new raw material on our approved material lists. Additional trials may be necessary prior to product being approved. No commercial orders for this fabrics can be taken while it remains a development grade. Development samples older than 12 months may require re-evaluation as raw materials may no longer be available.



Thermoplastic Polyurethane is recyclable. Mechanical recycling is the primary option, depending on the requirements of the application and the intended article specification. It can also be valorised for energy recovery, its high calorific value is around 29 Mj/kg. Polyurethane is neither biodegradable nor compostable.

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