

# Fast Constrained Optimization for Cloth Simulation Parameters from Static Drapes Supplementary Material

## 1 Foundational Data

We obtained optimized simulation parameter data for approximately 5000 real fabrics from VMOD [?], which was used as foundational data for generating training data. The dataset includes a wide variety of fabric types. Table 1 displays the total count of each fabric type included in the data. Additionally, Table 2 presents the types of fibers contained in the entire set of fabrics and the number of fabrics that include each specific fiber type.

Category	Sub Category	Type Name	Quantity	Category	Sub Category	Type Name	Quantity	
Woven	Dobby	Dobby	236	Cut & Sew knit	Double	Double knit / Interlock	211	
	Double weave	Double weave	69			Neoprene / Scuba	29	
	Eyelet	Eyelet	58			Pointelle	13	
	Jacquard	Clip jacquard	152			Ponte	69	
		Jacquard / Brocade	213			Quilted knit	8	
	Pile	Boucle	19			Rib	131	
		Corduroy	135			Waffle	24	
		Velvet / Velveteen	27			Dobby mesh	4	
	Plain	Canvas Challis Chambray / Oxford Chiffon Crepe / CDC Dewspo Flannel Gauze / Double gauze Georgette Memory Organza Ottoman Plaid Plain Poplin Taffeta Voile	26			Jacquard	Jacquard knit	264
			115				Pile	Fleece
			66		French terry	60		
			114		Loop terry	46		
			241		Polar fleece	30		
			102		Sherpa	27		
			167		Velour	33		
			45		Single	ITY / Matte jersey	2	
			41			Jersey	298	
			42		Texture	Crepe knit	20	
			2			Flatback rib	21	
			52			Low gauge knit	11	
			178		Warp knit	Pique	46	
			58			Crochet	90	
			40			Lace	155	
			45			Mesh / Tulle	200	
			Ripstop		Ripstop	37	Tricot	28
	Satin	Satin	103		Velvet	60		
	Seersucker	Seersucker	26		Animal alternatives	Vegan fur	Vegan fur	43
	TRS	TRS	53			Vegan leather	Vegan leather	111
	Twill	Denim Melton / Boiled Tweed Twill	108		Non-fabric	Vegan suede	Vegan suede	35
			57			PVC	PVC	63
			104		Tyvek	Tyvek	16	
			137		Total	5145		

Table 1: Fabric types and the number of fabrics in each type

<b>Fiber</b>	<b>Quantity</b>	<b>Fiber</b>	<b>Quantity</b>
Acetate	14	Nylon	699
Acrylic	299	Organic cotton	2
Alpaca	1	PE	31
Aluminium	3	PTT	1
Angora	11	PVC	23
Bamboo viscose	16	Pima cotton	5
Camel	1	Polyester	3069
Cashmere	5	Ramie	3
Cation	3	Recycled nylon	8
Cork	2	Recycled polyester	34
Cotton	1807	Silk	60
Cupro	7	Spandex / Elastane	1248
EVA	3	Supima cotton	7
Jute	2	TENCEL™	75
Linen	163	TPU	14
Lyocell	64	Triacetate	2
Metallic	129	Viscose rayon	714
Modal	32	Wool	320
Mohair	2		

Table 2: Fiber types and the number of fabrics containing each fiber