



MIPAN® robic® is a high tenacity textile yarn for durable garments and luggage.

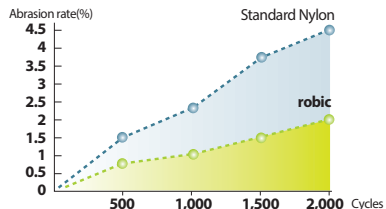
- [Characteristics]** · Excellent tenacity · Superior resistance to tears and abrasion  
 · Looks new longer

**[Tear strength and Tensile strength]**

	Tensile strength(kgf)		Tearing strength(kg)	
	Warp	weft	Warp	weft
<b>robic® 420</b>	278.3	210.8	16.3	15.1
Standard Nylon6	233.6	180.8	10.2	8.3
Standard	ASTM D 5034 GRAB		ASTM D 2261 TONGUE	

- [End Uses]** · Apparel for snowboarding, skiing, rock climbing, motor sportswear, etc  
 · Backpacks · Luggage · Military uniforms and bags

**[Abrasion strength of robic®]**



**[Tag]**



**[Specifications]**

ITEM	DENIER	FILA	APPLICAION	LUSTER
robic I Fine	10	5	Outshell Windbreaker Sleeping bag Packable bag	BRT
	15	7		
	20	10		
	40	24		
robic I Touch	*70	48	Durable garment	FD
	70	34		
robic I Original	100	24	Bags Military Outdoor apparel Work wear	
	210	24		
	*230	68		
	420	68		
	630	72		
robic 2	840	96	Weaving Sewing Threads Fishnet	BRT
	210	24		
	230	68		
	420	68		
	630	68		
	840	136		
robic 3	1260	136	Sewing Yarn Fishnet	
	105	34		
	210	34		
	280	34		
	420	68		

\* 70d ⇒ 75d / 160d / 320d ATY    \* 230d ⇒ 500d / 1000d ATY