

PRODUCT GUIDE: AUTOMOTIVE SAFETY

LEADERSHIP IN PROTECTION





AUTOMOTIVE SAFETY: LEADERSHIP IN PROTECTION

In the mid 1970s, the legacy businesses of Performance Fibers were the first to bring polyester fiber to automobile safety belt applications. As a result, polyester fiber has helped to protect automobile and truck passengers from harm for decades. Today, we continue to be a leader in meeting the demanding requirements of the automotive industry with consistent and reliable high performance fibers.

Applications include:

safety belts, harnesses,
air bags and air curtains
and air bag inflator hoses.

FEATURES AND BENEFITS:

- Fiber property consistency, uniformity and high mechanical quality mean less variation in manufacturing, greater productivity and overall break-strength reliability
- Good dyeability and predictable color consistency to meet the multiple color and style specifications on different automobile models
- Tensile strength provides for greater break strength, tenacity and toughness to help meet the rigid specifications of the automotive industry
- Availability across the globe helps to meet stringent inventory requirements in the automotive value chain

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

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Automotive Safety (Part 1)																													
Product	Features/ Benefits	Color	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled	Twisted	Breaking Strength			Tenacity		Elongation @ 30cN/tex	Elongation @ 45cN/tex	Elongation @ 54cN/tex	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Thermal Shrinkage 190°C-0.01gpd-15min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Shrinkage Force 180°C				
											(lbs)	(kg)	(N)	(g/d)	(cN/dtex)														
726				X		420	470	100	V0	VZ90	7.0	3.2	31	7.5	6.6			15.2	22.0			5.2				65			
730				X		500	550	96	V0	VZ60,100,130	8.2	3.7	37	7.4	6.5			5.0	10.5			15.5							
732				X		100	113	32	S10	Z300	1.6	0.7	8	7.1	6.3			8.5		13.0			11.5						
						250	280	48			V0	VZ130,225	3.8	1.7	17	6.8	6.0			6.5	7.0	13.0			14.0			12.5	
734				X		1000	1100	200	V0	On Request	20.2	9.2	90	9.1	8.0			5.8	11.0			11.0							
						1500	1670	200	V0	On Request	30.3	13.8	135	9.1	8.0			6.7	12.0			11.0							
						2000	2200	400	V0	On Request	39.6	17.9	176	9.1	8.0			5.8	11.0			11.0							
736		Black		X		1000	1100	64	V0	VZ60,100	18.0	8.2	81	8.0	7.2			8.0	14.3			13.5							
737		Black		X		250	280	48	V0		3.9	1.8	17	6.8	6.0		12.5		18.0			10.5							
						380	420	100	T0	Z60	5.8	2.7	26	7.0	6.2			10.5	18.5			15.5							
						500	550		28	T0	Z130	6.7	3.1	30	6.1	5.3	13.1			29.0			5.5						
									50	T0	Z130	8.4	3.8	38	7.6	6.7			14.0	20.0			6.0						
						1000	1100	106	T0	VZ60	18.3	8.3	82	8.2	7.3			10.5	15.5			10.5			10.5				
1500	1670	100	T0	VZ60	27.6	12.6	123	7.9	7.1			10.5	16.0			9.5			9.5										
738				X		1000	1100	64	V0		18.3	8.2	82	8.1	7.2			8.7	14.9			13.5							
									100	V0	VZ60,100	18.7	8.4	84	8.5	7.5			9.5	15.5			8.5						
739				X		380	420	100	V0	VZ100	5.8	2.6	26	7.0	6.1			7.5	17.5			15.5							
						500	550	28	T0		7.0	3.1	31	6.2	5.5	10.5			30.5			5.5							
						1500	1670	100	V0	VZ60,100	28.1	12.6	126	8.4	7.4			9.8	16.5			9.4							

V0 = intermingling with no twist; T0 = no twist, no intermingling

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(architectural design)

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Automotive Safety (Part 2)																																		
Product	Features/ Benefits	Color	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled	Twisted	Breaking Strength			Tenacity		Elongation @ 30cN/tex	Elongation @ 45cN/tex	Elongation @ 54cN/tex	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Thermal Shrinkage 190°C-0.01gpd-15min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Shrinkage Force 180°C									
									(V0)	(T/m)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(cN)		
785			X			420	467	35	V0		8.1	3.7	36	8.8	7.8				14.3			12.0		9.2										
						500	550	70	V0		9.5	4.3	42	8.6	7.6				13.0								16.2							
						750	830	70	V0		14.4	6.5	64	8.7	7.7				12.3										16.2					
						840	930	70	V0		16.9	7.6	75	9.1	8.0					13.9	7.9										12.5			
								140	V0		16.1	7.3	72	8.7	7.7					15.0	5.7										9.5			
						1000	1110	100	V0		20.7	9.4	92	9.1	8.0					14.0	7.9											12.5		
								118	V0		20.3	9.2	91	9.0	7.9					13.0	7.0											11.3		
						1100	1220	140	V0		22.3	10.1	99	9.0	7.9					13.0	7.0											11.3		
						1300	1440	100	V0		25.5	11.6	113	8.9	7.8					13.8	5.7												9.5	
						1500	1670	100	V0		29.9	13.6	133	9.1	8.0					14.8													12.0	
192	V0		29.1	13.2	129			8.8	7.8					15.0	5.5												9.3							
2000	2220	236	V0		39.4	17.9	175	8.9	7.9					15.3	7.0													11.3						
1W70 (Non-AA)	High Tenacity Standard Yarn		X	X	X	250	275	35	V0		4.6	2.1	21	8.5	7.5				15.0	5.5	10.7			8.0	9.3									
						420	470	35	V0		8.2	3.7	36	8.8	7.8				17.0	6.0	11.5				8.6	9.9								
						500	550	70	V0		9.8	4.5	44	8.8	7.8				17.0	6.5	12.2				9.2	10.6								
						220	240	35	V0		4.3	1.9	19	8.5	7.5				17.0	5.5	10.7				8.0	9.3								
						1000	1100	100	V0		20.2	9.2	90	9.1	8.0				15.0	6.5	12.2				9.2	10.6								
						1300	1440	100	V0		26.5	12.0	118	9.3	8.2				14.0	7.0	13.0				9.8	11.3								
1500	1670	100	V0		29.9	13.6	133	9.0	7.9				15.0	6.5	12.2				9.2	10.6														

AA = adhesive activated; V0 = intermingling with no twist

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