- Additional Lubrizol Apparel Technologies:
 - Hot Melt Adhesives
 - Films
 - Performance Coatings

Visit www.lubrizol.com/Engineered-Polymers to learn more

Innovation Alliance

In an effort to deliver the most revolutionary fiber available, Lubrizol has partnered with a select group of supply chain experts to bring X4zol[™]-J to the global marketplace. Visit our website for a list of partner companies.

Website: www.x4jfiber.com Email: x4j@lubrizol.com

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X4zol[™]-J Fiber

Lubrizol X4zol[™]-J, a thermoplastic polyurethane (TPU), is a new elastomeric monofilament that is manufactured differently from spandex, resulting in unique qualities that provide comfort above and beyond traditional stretch fibers. X4zol[™]-J is produced through a process of melt extrusion, which does not require the use of solvents. The melt extrusion process is cleaner; resulting in a finer and stronger monofilament than traditional spandex, exhibiting a superior stretch.

Benefits of X4zol[™]-J in Fabrics

- Thinner, stronger and more durable
- Comfortable compression
- Breathable, faster drying and cooling sensation
- Balanced 360° stretch for enhanced fit

X4zol [™] - J PRODUCTS			KNITTING PROCESS							APPAREL APPLI					
Denier (g/9000m)	Color, Luster	Circular	Warp	Seamless	Flat-Bed	Wovens	Socks/Hosiery	7	Performance Wear	Baselayer	Intimates	Denim	Athleisure/Yoga	Narrow Elastics	
20D UV	Bright						*				*				
40D UV	Bright	*	*	*	*	*	*		*		*		*	*	
70D UV	Bright	*	*	*	*	*			*	*	*	*	*	*	
140D UV	Bright	*	*	*	*	*			*	*	*	1 1 1 1 1	*		
360D WHT	Semi-Dull	*	*	*	*	*					*	 	*	*	
1080D WHT	Semi-Dull	*	*	*	*	*			 		*	' ' ' ' '		*	

Compatible Yarns with X4zol[™]-J: Nylon, Cotton, Wool, Polyester**

Fabric Construction Examples: Stretch Fleece, Single/Double Jersey, Spacer Fabrics, Lingerie Elastics, Satin Tricot **Covered Yarn Application Examples:** Cotton-Denim, Nylon - Lingerie/Hosiery/Socks/Seamless Knits, Wool Knits **For Custom Deniers and Colors Contact:** x4j@lubrizol.com



*Recyclability is based on access to a readily available standard recycling program that supports such materials. Products may not be available in all areas. **Maximum recommended dyeing temperature is 115°C Sustainable benefits – solvent free, lower process temperatures and recyclable* fiber

• Chlorine and UV resistance



