



# PERFORMAX™ 4388

## STRETCH RESISTANCE THROUGH TEXTILE COATING TECHNOLOGY

### Enhancing Compression Power of Stretch Fabrics

Performax™ 4388 is a stretchable, water-borne compound that provides an excellent balance of stretch-recovery, abrasion resistance, flexibility and softness for adding compression power to stretch fabrics used in shapewear, denim garments, yoga pants, orthopedic fabrics and other demanding applications. This ready-to-use, urethane based coating forms a soft, flexible film which has excellent adhesion to a variety of substrates including cotton, polyester, nylon and their blends. Performax 4388 can be applied using all traditional techniques such as knife, Meyer rod, rotary screen and gravure print, as well as by precision-spray and functional digital print methods. Depending on performance requirements, single or multiple coats of the compound can be applied to achieve desired levels of performance.

### Print-Applied Functionality

In addition to fully coated fabrics, Performax stretch restriction coatings can be used for patterned effects achieved using rotary screen, gravure, hand applied stencils or digital printing. This feature enables body-mapping or zoned application of compression power.

### Features and Benefits

In addition to its primary value as a compression power enhancer as measured by increased fabric modulus and decreased elongation, Performax 4388 stretch restriction coating also offers a balance of performance characteristics including chemical resistance, 20+ wash durability, abrasion resistance, excellent adhesion to a variety of substrates and good balance of hardness/flexibility.

**Lubrizol**

PAPER & TEXTILES

## WHAT WE ADD MAKES THE DIFFERENCE.™

THE TRUSTED CHOICE FOR MULTI-FUNCTION, HIGH-PERFORMANCE COATINGS

- ENVIRONMENTALLY CONSCIOUS, WATER-BASED SOLUTIONS
- CUSTOM TAILORED SOLUTIONS FOR UNIQUE FABRIC REQUIREMENTS
- WORLD LEADING TECHNOLOGY FOR WOVENS, KNITS AND NONWOVENS
- APPLICATIONS EXPERTISE WITH KNIFE-COATING, PRECISION SPRAY, ROTARY SCREEN, GRAVURE, PAD AND FUNCTIONAL DIGITAL PRINTING

[www.lubrizol.com/textilecoatings](http://www.lubrizol.com/textilecoatings)

## TECHNICAL CAPABILITIES

- WATER-BASED CHEMISTRY
- FORMULATED SOLUTIONS
- POLYMER SYNTHESIS
- APPLICATION EXPERTISE, INCLUDING KNIFE, SPRAY, PRINT, DIGITAL
- TESTING FOR PROOF OF PERFORMANCE

## PRODUCT FEATURES

- INCREASES FABRIC MODULUS
- DECREASES ELONGATION
- WASH DURABILITY
- CHEMICAL RESISTANCE
- EXCELLENT ADHESION TO A VARIETY OF SUBSTRATES
- GOOD BALANCE OF HARDNESS/FLEXIBILITY



0.1" x 0.1"  
Grid Pattern



0.25" x 0.25"  
Grid Pattern



0.5" x 0.5"  
Grid Pattern



"V" Pattern

Warp Direction	Test Results: Loading in Newtons = 6		Differences to Uncoated	
	Modulus Loading PSI (Test Cycle 3)	Elongation @ Peak % (Test Cycle 3)	Modulus Loading PSI	Elongation @ Peak %
<b>Sample</b>				
No Coating	53.7	68.1	Improves By	Decreases By
0.1 x 0.1	95.2	38.2	41.6%	30.0%
0.25 x 0.25	74.9	45.2	21.2%	22.9%
0.5 x 0.5	76.5	42.6	22.8%	25.2%
V Pattern	85.6	44.5	31.9%	23.6%
Full	250.0	15.7	196.3%	52.4%

### Lubrizol Advanced Materials, Inc.

9911 Brecksville Road, Cleveland, OH 44141

800.380.5397



The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. **THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

Trademarks owned by The Lubrizol Corporation or its affiliates. ©The Lubrizol Corporation 2019, All Rights Reserved. 19-177200

Visit us at:  
[www.lubrizol.com/textilecoatings](http://www.lubrizol.com/textilecoatings)