

The LYCRA Company

PRODUCT INFORMATION

FOR GENERAL RELEASE

JANUARY 28, 2020

TERATHANE® PTMEG (polyether glycol)

Innovative polyurethane intermediates

Product Description

TERATHANE® PTMEG is a family of polyether glycols available in a range of molecular weights. They are liquid or a waxy, white solid that melts to a clear, colorless, viscous liquid over a wide temperature range near room temperature.

Major Industrial Uses

TERATHANE® PTMEG reacts with isocyanates or organic acids to form a variety of elastomers including polyurethanes, copolyesters and polyamides which are

used in numerous end use applications, such as wheels and tires, industrial belts, tank and pipe linings, industrial coatings, fabric and leather coatings, synthetic leather, cable jacketing, hoses and medical tubing, adhesives and sealants, and spandex fiber.

Precautions

Before using TERATHANE® PTMEG in any application, the user should review and understand the Safety Data Sheet.

Specifications

	PTMEG 250	PTMEG 650	PTMEG 1000	PTMEG 1400	PTMEG 1800	PTMEG 2000
Molecular weight daltons	230 – 270	625 – 675	950 – 1050	1350 – 1450	1700 – 1900	1900 – 2100
Hydroxyl number mg KOH/g	415.6 – 487.8	166.2 – 179.5	106.9 – 118.1	77.4 – 83.1	59.1 – 66.0	53.4 – 59.1
Water ppm	150 max.	150 max.	150 max.	150 max.	150 max.	150 max.
Color APHA	40 max.	40 max.	40 max.	40 max.	40 max.	40 max.
Alkalinity number meq KOH/kg x 30	-2.0 – 1.0	-2.0 – 1.0	-2.0 – 1.0	-2.0 – 1.0	-2.0 – 1.0	-2.0 – 1.0

Typical properties

	PTMEG 250	PTMEG 650	PTMEG 1000	PTMEG 1400	PTMEG 1800	PTMEG 2000
Viscosity at 40°C	40 – 80 cP	100 – 200 cP	260 – 320 cP	480 – 700 cP	850 – 1050 cP	950 – 1450 cP
Melting point	-5 – 0°C 23 – 32°F	11 – 19°C 52 – 66°F	25 – 33°C 77 – 91°F	27 – 35°C 81 – 95°F	27 – 38°C 81 – 100°F	28 – 40°C 82 – 104°F
Density at 40°C	0.98 m/l 8.2 lb/gal	0.98 m/l 8.2 lb/gal	0.97 m/l 8.1 lb/gal	0.97 m/l 8.1 lb/gal	0.97 m/l 8.1 lb/gal	0.97 m/l 8.1 lb/gal
Refractive index	1.464 n _D ²⁵	1.464 n _D ²⁵	1.464 n _D ²⁵	1.464 n _D ²⁵	1.464 n _D ²⁵	1.464 n _D ²⁵
Flash point (tag, open cup)	> 163°C > 325°F	> 163°C > 325°F	> 163°C > 325°F	> 163°C > 325°F	> 163°C > 325°F	> 163°C > 325°F
Peroxide content (as H ₂ O ₂)	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm
Stabilizer (BHT)	200 – 350 ppm	200 – 350 ppm	200 – 350 ppm	200 – 350 ppm	150 – 350 ppm	200 – 350 ppm

TERATHANE®

POLYETHER GLYCOL

The LYCRA Company innovates and produces fiber and technology solutions for the apparel and hygiene industries, as well as specialty chemicals used in the spandex and polyurethane value chains. Headquartered in Wilmington, Delaware, The LYCRA Company is recognized worldwide for its innovative products, technical expertise, and unmatched marketing support. The LYCRA Company owns leading consumer and trade brands: LYCRA®, LYCRA HyFit®, LYCRA® T400®, L by LYCRA®, COOLMAX®, THERMOLITE®, ELASPAN®, SUPPLEX®, TACTEL®, and TERATHANE®. While The LYCRA Company's name is new, its legacy stretches back to 1958 with the invention of the original spandex yarn, LYCRA® fiber. Today, The LYCRA Company is focused on adding value to its customers' products by developing unique innovations designed to meet the consumer's need for comfort and lasting performance. For more information, visit connect.lycra.com and lycra.com.

NOTICE: The data and material presented were derived from internal studies and are provided for informational purposes only. The LYCRA Company does not provide any representation or warranty with respect to the standards used or applied in deriving such data and material, the statistical significance of such data and material or the reliability, accuracy or fitness of such data and material for any purpose whatsoever. All such data and material are the property of The LYCRA Company and nothing herein shall be construed as authorization or license to use, print or distribute any such data or material. The LYCRA Company disclaims any liability whatsoever with respect to the use of any of the data or material contained herein.

© 2020 The LYCRA Company. TERATHANE® is a trademark of The LYCRA Company.

Contact Information:

Americas

John Gorcyca
john-r.l.gorcyca-1@LYCRA.com
Phone: + 1-302-683-3074

Asia

Jason Shang
jason.shang@LYCRA.com
Phone: + 86-21-63876666-2228

Europe

Morteza Shirazi
morteza.shirazi@LYCRA.com
Phone: + 34-932-379-282