

## 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
<b>Molecular weight</b> daltons	230 – 270	625 – 675	950 – 1050	1350 – 1450	1700 – 1900	1900 – 2100
<b>Hydroxyl number</b> 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
<b>Water</b> ppm	150 max.	150 max.	150 max.	150 max.	150 max.	150 max.
<b>Color</b> APHA	40 max.	40 max.	40 max.	40 max.	40 max.	40 max.
<b>Alkalinity number</b> 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
<b>Viscosity at 40°C</b>	40 – 80 cP	100 – 200 cP	260 – 320 cP	480 – 700 cP	850 – 1050 cP	950 – 1450 cP
<b>Melting point</b>	-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
<b>Density at 40°C</b>	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
<b>Refractive index</b>	1.464 n <sub>D</sub> <sup>25</sup>	1.464 n <sub>D</sub> <sup>25</sup>	1.464 n <sub>D</sub> <sup>25</sup>	1.464 n <sub>D</sub> <sup>25</sup>	1.464 n <sub>D</sub> <sup>25</sup>	1.464 n <sub>D</sub> <sup>25</sup>
<b>Flash point</b> (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
<b>Peroxide content</b> (as H <sub>2</sub> O <sub>2</sub> )	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm
<b>Stabilizer</b> (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](http://connect.lycra.com) and [lycra.com](http://lycra.com).

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