



P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Lennite™ WM



Lennite™ WM is a semi-crystalline ultra high molecular weight polyethylene (UHMWPE) thermoplastic offering excellent wear resistance, low coefficients of static and dynamic friction high chemical resistance, and toughness. Lennite Ultra-High Molecular-Weight Polyethylene (UHMW-PE) is ram extruded bar stock that is made in accordance with ASTM specification F648 and International Standard ISO 5834-2 making it suitable for use in orthopedic implants.

INDUSTRY



Life Sciences

COLORS AVAILABLE



Natural

ATTRIBUTES



Impact Resistance



Biocompatibility



Wear Resistance



Chemical Resistance



SHAPES

Extruded Rod





P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Lennite™ WM

TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength - Yield	ASTM D638	3.3 kpsi	23 Mpa
Tensile Strength - Break	ASTM D638	7.4 kpsi	51 Mpa
Tensile Elongation - Break	ASTM D638	374 %	374 %
Izod Impact Resistance - Double Notched	ASTM F648	46.2 ft-lb/in ²	97 kJ/m ²
Physical			
Ash Content	ISO 3451-1		40 mg/kg
Specific Gravity	ASTM D792	0.932	0.932

*Data above is based on testing of machined test specimens made from ram extruded bar stock



P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Lennite™ WM

PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)
3.50" (88.9mm)					

LAST REVISED: 01/30/2025

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.

EXCLUSION OF WARRANTIES: THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S LITERATURE ARE TYPICAL PROPERTIES ONLY.