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

- Wear Resistance
- Chemical Resistance
- Biocompatibility
- Impact Resistance

SHAPES

- Extruded Rod

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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

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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: 08/18/2025

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