

UHMWPE LENNITE™ WM

Implantable Grade

Lennite ram extruded bar stock is made from UHMWPE resin which conforms to ASTM F648 and ISO 5834-1. Westlake Plastics' manufacturing processes and stringent quality control deliver well-consolidated and consistent pre-forms. Lennite ram extruded bar stock conforms to ASTM F648 and ISO 5834-2 and is targeted for use in machining orthopedic implants. Sterilization methods include EtO gas, cold sterilization, and limited gamma irradiation.



The following physical property information is based on testing performed on ram extruded Lennite rods.

Property (Type I)	Units	Requirement	GUR1020 Result
Density	kg/m ³	927 to 944	.932
Ash Content	mg/kg	150 (max.)	58
Tensile Strength @yield @break	MPa MPa	21 (min.) 35 (min.)	22.6 49.9
Elongation @break	%	300 (min.)	405
Izod Impact Strength	kJ/m ²	126 (min.)	NB
Property (Type II)	Units	Requirement	GUR1050 Result
Density	kg/m ³	927 to 944	928
Ash Content	mg/kg	150 (max.)	60
Tensile Strength @yield @break	MPa MPa	19 (min.) 40 (min.)	20.5 44
Elongation @break	%	340 (min.)	381
Izod Impact Strength	kJ/m ²	73 (min.)	NB

Applications Include:

- Total hip and knee joint prosthesis
- Various other surgical implants
- Medical devices

Manufacturing Capabilities:



Colors:

Natural

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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