

Westlake Plastics Lennite® GUR1020 (Type I) Ultra-high Molecular Weight Polyethylene For Medical Applications

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

Medical grade Lennite UHMWPE is produced from premium resins in accordance with ASTM specification F648 and International Standard ISO 5834-1 for surgical implants. Westlake Plastics' proprietary manufacturing processes and stringent quality control permit a well consolidated and consistent fabricated form. Recommended sterilization techniques include EtO gas, cold sterilization and limited gamma irradiation. Applications Include: Total hip and knee joint prosthesis Various other surgical implants Medical devices Advantages of Medical Grade Lennite UHMWPE: Lot controlled and traceable ASTM F-648 and ISO 5834-1/2 Compliant Stress relieved Custom certifications available Information provided by Westlake Plastics Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Lennite-GUR1020-Type-I-Ultra-high-Molecular-Weight-Polyethylene-For-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	0.927 - 0.944 g/cc	0.0335 - 0.0341 lb/in ³	Requirement
	0.936 g/cc	0.0338 lb/in ³	Result
Ash	0.000055 %	0.000055 %	Result
	<= 0.00015 %	<= 0.00015 %	Requirement

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 35.0 MPa	>= 5080 psi	Requirement
	54.3 MPa	7880 psi	Result
Tensile Strength, Yield	>= 21.0 MPa	>= 3050 psi	Requirement
	22.9 MPa	3320 psi	Result
Elongation at Break	>= 300 %	>= 300 %	Requirement
	430 %	430 %	Result
Izod Impact, Notched (ISO)	>= 140 kJ/m ²	>= 66.6 ft-lb/in ²	Requirement
	213 kJ/m ²	101 ft-lb/in ²	Result
Charpy Impact, Notched	>= 18.0 J/cm ²	>= 85.7 ft-lb/in ²	Requirement
	28.4 J/cm ²	135 ft-lb/in ²	Result

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