

Westlake Plastics Lennite® GUR1050 (Type II) 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-GUR1050-Type-II-Ultra-high-Molecular-Weight-Polyethylene-For-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in ³	Result
	0.927 - 0.944 g/cc	0.0335 - 0.0341 lb/in ³	Requirement
Ash	0.000055 %	0.000055 %	Result
	<= 0.00015 %	<= 0.00015 %	Requirement

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 27.0 MPa	>= 3920 psi	Requirement
	51.9 MPa	7530 psi	Result
Tensile Strength, Yield	>= 19.0 MPa	>= 2760 psi	Requirement
	22.7 MPa	3290 psi	Result
Elongation at Break	>= 300 %	>= 300 %	Requirement
	390 %	390 %	Result
Izod Impact, Notched (ISO)	>= 73.0 kJ/m ²	>= 34.7 ft-lb/in ²	Requirement
	136 kJ/m ²	64.7 ft-lb/in ²	Result
Charpy Impact, Notched	>= 9.00 J/cm ²	>= 42.8 ft-lb/in ²	Requirement
	14.9 J/cm ²	70.9 ft-lb/in ²	Result

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China