# **Market Focus** Medical

This Market Focus provides an overview of market.



#### MEDICAL MARKET OVERVIEW

Westlake Plastics has long been an innovator and leading producer of semi finished thermoplastic products for the life science market. Our knowledge of thermoplastic materials and the performance-characteristics needed to meet an applications requirements has made us a reliable development partner to leading OEMs. We support customers through the entire development process, from design and material selection through prototyping and manufacturing scale up to commercialization.



## **KEY ATTRIBUTES**

We understand selecting a polymer can be challenging. We have categorized our standard products by attributes to enable an easy match between a specific products capabilities and your application's needs. Critical requirements for typical life science applications include;







CHEMICAL





**OUR EXPERTISE & COMMITMENT** 

As an early leader of the movement to incorporate thermoplastics into Life Science applications, Westlake Plastics has an extensive line of products made with USP Class VI and ISO 10993 compliant resin. Many of our semi-finished shaped products have been tested to USP VI and ISO 10993 standards. If you're considering one of our products for use in a life science application and compliance to USP VI or ISO 10993 standards is required, please contact Westlake Plastics for specific regulatory declarations.

Our advanced manufacturing technologies allow the conversion of a wide range of thermoplastics into semi-finished shapes and film. All products for the life science market are made with 100% virgin resin (no regrind used), are lot controlled and lot traceable and are subject to change control and change notification policies.

An ISO 9001 and ISO 13485 registered company, Westlake Plastics values customer feedback. Our commitment to quality and continuous improvement coupled with our focus on customer satisfaction positions us for success with integrity.

### **COMMON APPLICATIONS**

#### **ORTHOPEDICS**

**Implants Provisional Trials** 

Instruments/Tools

Sterilization Cases

#### SURGICAL & MEDICAL **INSTRUMENTS**

Laparoscopic Tools/Instruments Scopes

#### **BIOPHARMA PROCESSING**

Tanks

Valves

**Fittings** 

**Process Cassettes** 

Manifolds

**Pump Housings** 

#### **DIAGNOSTIC & IMAGING EQUIPMENT**

**Shrouds** 

Covers

Housings

Guards

#### **DENTAL**

Trays

Instruments

**Tools** 

# Market Focus Medical

This Market Focus provides an overview of Westlake products that serve the Life Science market.



PRODUCT	SHAPES	STERILIZATION PROCESS	KEY ATTRIBUTES	COLORS	STANDARDS*
RADEL® PPSU	SL, TS, EF, ER	GS, EB, LT, ETO, SS	Impact Resistance   High Chemical Resistance   High Heat Resistance		ISO 10993
TEMPALUX® PEI (ULTEM)	SL, TS, EF, ER	GS, EB, ETO, SS	Heat Resistance   High Strength & Stiffness   Chemical Resistance	0	USP CLASS VI, ISO 10993
PROPYLUX HS®	ER	LT, ETO, SS	Dimensional Stability   Chemical Resistance   Low Moisture Absorption		ISO 10993
PROPYLUX™HS2	SL	LT, ETO, SS	Dimensional Stability   Chemical Resistance   Low Moisture Absorption	$\bigcirc lackbox{} \bigcirc$	ISO 10993, USP CLASS VI (White, Natural)
THERMALUX® PSU	SL, TS, EF, ER	GS, EB, ETO, SS	Transparent   High Strength & Stiffness   Chemical Resistance	$\bigcirc lacktriangle$	USP CLASS VI, ISO 10993
ZELUX® GS PC	SL, TS, EF, ER	GS, EB, ETO	Gamma Stabilized   High Impact   High Strength		USP CLASS VI, ISO 10993
ZELUX® M PC	SL, TS, EF, ER	ETO	Transparent   High Impact   High Strength		USP CLASS VI, ISO 10993
KYNAR® PVDF	SL, TS, EF, ER	GS, EB, LT, ETO	Chemical Resistance   Heat Resistance   Low Moisture Absorbtion	$\bigcirc lacktriangle$	USP CLASS VI
<b>LENNITE™</b> UHMWPE	SL, ER	GS, EB, ETO	Wear Resistance & Low COF's   Impact Resistance & Toughness	0	ASTM F-648 ISO 5834-2
ULTRA-ETHYLUX® HDPE	SL, TS, EF	GS, EB, LT, ETO	Chemical Resistance   Impact Resistance   Stiffness	$\bigcirc lacktriangle$	USP CLASS VI
<b>ETHYLUX™</b> LDPE	SL	GS, EB, LT, ETO	Chemical Resistance   Impact Resistance   Low Moisture Absorption		USP CLASS VI
CYLUX™ C	SL	GS, EB, ETO	Transparency   Chemical Resistance   Heat Resistance	$\circ$	USP CLASS VI, ISO 10993
CYLUX™ P COP	SL	GS, EB, ETO	Transparency   Chemical Resistance   Heat Resistance	0	USP CLASS VI, ISO 10993
SHAPE KEY	<b>SL</b> = SLAB S	HEET TS = THIN	N SHEET <b>EF =</b> EXTRUDE	D FILMS <b>ER</b> = EXTR	UDED RODS
STERILIZATION KEY	<b>GS</b> = GAMN	1A <b>EB =</b> E-BEAM	I LT = LOW TEMP/COLI	D <b>ETO =</b> ETO	SS = STEAM

<sup>\*</sup>Please contact Westlake Plastics for biocompatibility and regulatory declarations specific to each product





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Disclaimer\* SMITHERS Quality Assessment certifications ISO 9001:2015 And ISO 13485:2016 apply to Westlake Plastics NA operations. BSI Quality Management certifications ISO 9001 and ISO 13485 apply to Westlake Plastics EU operations.