Process Overview
Thin Sheet Products

This Process Overview provides a summary of Westlake products that are extruded as Thin Sheet

Westlake plastics
LIFE IN POLYMERS

STANDARD THIN SHEET PRODUCTS

Made from a broad range of resins, Westlake Plastics' extruded thin sheet can be run at various thicknesses and trimmed to size to meet your application requirements. Material stability, sheet dimensions, yield versus cost, and surface finish are all factors to consider when choosing extrusion versus compression molded sheets. From 0.020" to 0.300" (0,5mm - 7,6mm) thicknesses and up to 52" (1,3m) wide, depending on the material.

STANDARD PRODUCTS

PRODUCT	POLYMER CATEGORY	SPECIFIC GRAVITY	THERMAL HDT @ 264 PSI	KEY ATTRIBUTES	INDUSTRIES
NORYLUX® PPO	Technical	1.08	253°F (123°C)	Dimensional Stability | Impact Resistance | Dielectric Properties	
KYNAR® PVDF	High Performance	1.78	221°F (105°C)	Flammability Resistance | Chemical Resistance | Dielectric Properties	
RADEL® PPSU	High Performance	1.29	404°F (207°C)	Chemical Resistance | Dimensional Stability | Biocompatibility	
TEMPALUX® WM PEI	High Performance	1.27	393°F (201°C)	Chemical Resistance | Dimensional Stability | Biocompatibility	
THERMALUX® PSU PSU	High Performance	1.24	345°F (174°C)	Dielectric Properties | Transparent | Heat Resistance | Biocompatibility	

INDUSTRIES

These six industries are the DNA of Westlake Plastics. Since the 1970's, we have worked in close conjunction with resin suppliers and end users to create products that not only meet the critical needs of customer applications, but also redefine specific industry standards.

LIFE SCIENCES · AEROSPACE & DEFENSE · SEMICONDUCTOR & ESD MATERIALS · ENGINEERING · CHEMICAL PROCESS · ENERGY STORAGE

WINDING CAPABILITIES

Westlake can deliver material on rolls.
*Dependant on material and gauge

CAPABILITIES

	SHEETS	ROLLS
GAUGE RANGE	0.020" - 0.300" (0,5mm - 7,6mm)	up to 0.080" (2mm)
WIDTH	48" - 52" (1,2m - 1,3m)	26" (660mm)
LENGTH	standard 96" (2,4m) custom up to 120" (3,1m)	up to 24" (610mm) diameter
SURFACE FINISH	0.06" (1,5mm) or greater is polished both sides 0.06" (1,5mm) or less is polished one side/matte one side	

SHEET WEIGHT CALCULATION

Length (in.) x Width (in.) x Gauge (in.) x Specific Gravity / 27.68 = lbs./sheet
Example | **KYNAR®**: 96"L x 48"W x 0.020in x 1.78/27.68 = 5.93 lbs./sheet

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CUSTOM THIN SHEET DEVELOPMENT

In addition to our standard thin sheet offerings, Westlake works with suppliers to offer a range of custom products made from polymers with enhanced properties such as conductivity, high temperature resistance, impact resistance, flame retardancy, color customization, and wear resistance. Our development capabilities also allow us to produce materials ranging from technical plastics to ultra high performance plastics.

Conductivity Properties
Insulative, Anti-Static, Static Dissipative, and Conductive grades available in most resins.

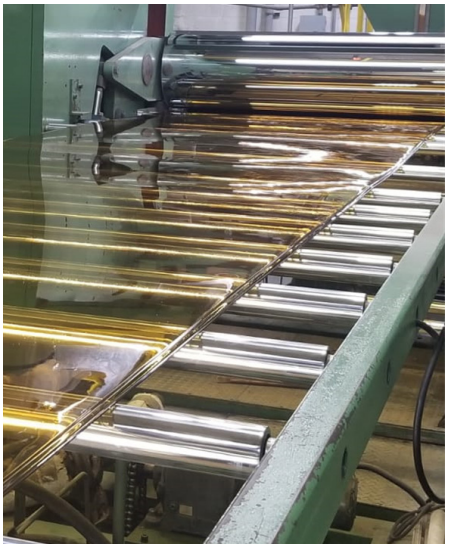
High Temperature
Withstanding temperatures above 300°F/150°C.

Impact Resistance
Ability to modify product to absorb significant energy.

Flame Retardant
Ability to meet a wide range of flammability standards.

Color Customization
Ability to develop new color variations.

Wear Resistance
Lubricated additives, etc.



CUSTOM PRODUCTS

PRODUCT	POLYMER CATEGORY	SPECIFIC GRAVITY	THERMAL HDT @ 264 PSI	KEY ATTRIBUTES	INDUSTRIES
ABSYLUX® ABS	Technical	1.03	169°F (76°C)	Impact Resistance | Dimensinal Stability | Strength & Stiffness	
ULTRA ETHYLUX® HDPE	Technical	0.96	140°F (60°C)	Impact Resistance | Low Moisture Absorption | Chemical Resistance	
POMALUX® POMC	Technical	1.41	230°F (110°C)	Wear Resistance | Chemical Resistance | Dielectric Properties	
ZELUX® PC	Technical	1.20	288°F (142°C)	Dimensional Stability | Impact Resistance | Biocompatibility	
AMIDELUX™ PA	High Performance	1.02	226°F (108°C)	Transparent | Chemical Resistance | Impact Resistance	
ARDEL PAR	High Performance	1.21	347°F (175°C)	Heat Resistance | UV Resistance | Dielectric Properties | Transparent	
AROLUX® PEEK PEEK	High Performance	1.30	320°F (160°C)	Wear Resistance | Strength | Stiffness | Heat Resistance	
AROLUX® PEKK PEKK	High Performance	1.44	324°F (162°C)	Strength & Stiffness | Chemical Resistance | Heat Resistance	
AROLUX® PI PI	High Performance	1.30	443°F (223°C)	Heat Resistance | Chemical Resistance | Dielectric Properties	
THERMALUX® PESU PESU	High Performance	1.37	392°F (200°C)	Dielectric Properties | Chemical Resistance | Heat Resistance	

*Properties above are typical and based on testing of injection molded specimens. Property characteristics are subject to change through modification.

Don't see what you're looking for? Reach out to a Westlake Plastics representative today to see how we can support your product development needs.

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