

Process Overview

Extruded Film

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



HIGH PERFORMANCE FILMS

Extruded from a broad range of resins, Westlake high performance films have unique combinations of properties that include high temperature resistance, high strength, good chemical resistance and a variety of specialized properties that enable you to match a specific films' capabilities to your application needs. Common Westlake film products are made from:

- Polyetheretherketone (PEEK)
- Polyetherimide (PEI)
- Polysulfone (PSO)
- Polyvinylidene Fluoride (PVDF)

In addition to high performance films, Westlake also extrudes on a custom basis engineered and specialty films from resins such as Absylux (ABS), Ardel (PAR), Arolux (PEKK), Imidex (TPI), Pomalux (POMc), Radel (PPSU), Thermalux (PESU), and Zelux (PC).









Whatever your high performance, engineered or specialty film needs are, Westlake stands ready to work with you to meet them.



APPLICATIONS

- ✓ Adhesive Liners
- ✓ Capacitor Films
- ✓ Composite Adhesive Films
- ✓ Diaphragms
- ✓ Electrical Insulation (Tapes)
- ✓ Flexible Circuits
- ✓ High Heat Labels & Decals
- ✓ Release Films
- ✓ Sterilization Pouches
- ✓ Structural Membranes
- ✓ Tank Liners

KEY ATTRIBUTES

- | | |
|---|--|
|  Abrasion Resistance |  Unique Dielectric Properties |
|  Biocompatibility |  Flammability Resistance |
|  Chemical Resistance |  High Heat Deflection |
|  Dimensional Stability |  UV Stability |

OUR EXPERTISE

Our advanced manufacturing technologies allow the conversion of a full range of thermoplastics into semi-finished shapes and film. Highly skilled sales and manufacturing teams readily assist customers in the selection of the optimal product to meet their needs.

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.

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FINISHES AVAILABLE

All films are polished one side, matte one (P/M).

COLORS



All films come in natural color (no colorants). Most products in thinner gauges will exhibit a transparent or translucent appearance. Some are available in black and other colors.

TOLERANCES

Plus or minus 10% (+/- 10%) on all films in all gauges.

FILM CONVERSION TABLE

THICKNESSES	0.001"	0.003"	0.005"	0.010"	0.020"
AROLUX® PEEK PEEK	151.0	50.0	30.0	15.1	7.5
KYNAR® PVDF	107.5	35.8	21.5	10.8	5.4
TEMPALUX® PEI	151.5	50.5	30.3	15.2	7.6
TEMPALUX® WM PEI	151.5	50.5	30.3	15.2	7.6
THERMALUX® PSU PSU	154.0	51.3	30.8	15.4	7.7

Number of ft²/lb

PRODUCT	GAUGE - 26"W	KEY ATTRIBUTES	INDUSTRIES
AROLUX® PEEK PEEK	0.002"(0.05mm) - 0.020"(0.51mm)	Chemical Resistance Heat Resistance Strength Wear Resistance	Aerospace Chemical Process Semiconductor & ESD
KYNAR® PVDF	0.002"(0.05mm) - 0.020"(0.51mm)	Chemical Resistance Heat Resistance Flammability Resistance Wear Resistance	Aerospace Chemical Process Life Sciences Semiconductor & ESD
TEMPALUX® PEI	0.002"(0.05mm) - 0.020"(0.51mm)	Chemical Resistance Dielectric Properties Heat Resistance Food Contact	Aerospace Chemical Process Semiconductor & ESD
TEMPALUX® WM PEI	0.002"(0.05mm) - 0.020"(0.51mm)	Chemical Resistance Dimensional Stability Heat Resistance Biocompatibility	Life Sciences
THERMALUX® PSU PSU	0.002"(0.05mm) - 0.020"(0.51mm)	Biocompatibility Transparent Heat Resistance Dimensional Stability Food Contact	Chemical Process Life Sciences

PRODUCT	GAUGE - 26"W	KEY ATTRIBUTES	INDUSTRIES
ABSYLUX® SD-A ABS	0.010"(0.25mm) - 0.020"(0.51mm)	Impact Resistance Dimensional Stability Dielectric Properties	Engineering Semiconductor & ESD
ARDEL™ PAR	0.002"(0.05mm) - 0.020"(0.51mm)	UV Resistance Dielectric Properties Heat Resistance Transparency	Engineering Semiconductor & ESD
AROLUX® PEKK PEKK	0.002"(0.05mm) - 0.020"(0.51mm)	Chemical Resistance Heat Resistance Strength Wear Resistance	Aerospace Chemical Process Semiconductor & ESD
THERMALUX® PESU PESU	0.002"(0.05mm) - 0.020"(0.51mm)	Dimensional Stability Heat Resistance Dielectric Properties Chemical Resistance	Chemical Process Engineering
THERMALUX® PPSU PPSU	0.002"(0.05mm) - 0.020"(0.51mm)	Dielectric Properties Chemical Resistance Heat Resistance Dimensional Stability	Aerospace Chemical Process Engineering
ZELUX® CN-P PC	0.005"(0.13mm) - 0.02"(0.51mm)	Dielectric Properties Flammability Resistance Dimensional Stability	Engineering Semiconductor & ESD

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