

Market Focus

Energy Storage

This Market Focus provides a summary of Westlake products that serve the Energy Storage Market



ENERGY STORAGE SOLUTIONS

Westlake Plastics serves the energy storage market by providing high performance shapes film and sheet polymer solutions. Since the 1970's, Westlake Plastics has worked in close conjunction with resin suppliers and end users to transform resins into shapes ranging from 0.002" to 6" (0,05mm - 152,4mm) thick that not only meet the critical needs of customer applications, but also redefine specific industry standards.

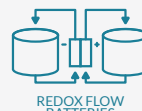


APPLICATIONS

Westlake Plastics offers an extensive range of polymer solutions allowing our products to be used in many different applications across energy storage and renewable markets.



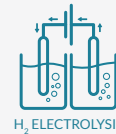
FUEL CELLS



REDOX FLOW BATTERIES



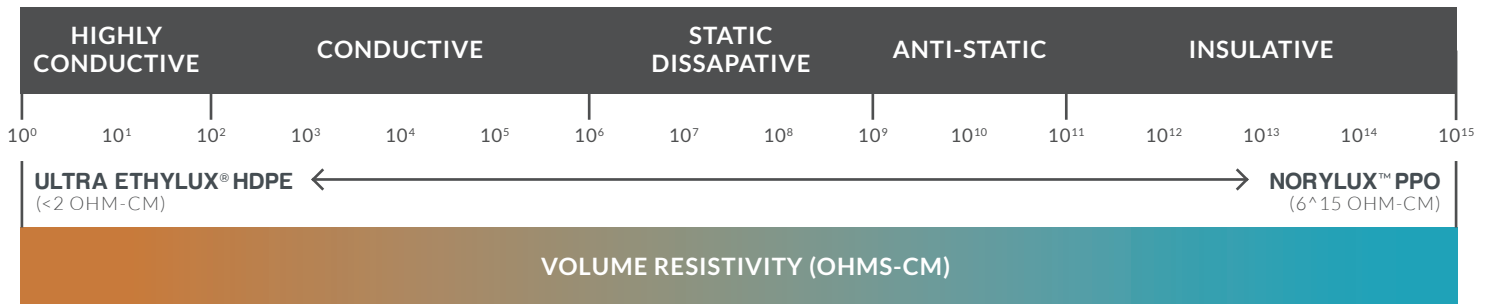
EV BATTERIES



H₂ ELECTROLYSIS



AND MORE



CONDUCTIVE & INSULATIVE PRODUCTS

PRODUCT	SPECIFIC GRAVITY	THERMAL HDT @ 264 PSI	KEY ATTRIBUTES	POLYMER CATEGORY	VOLUME RESISTIVITY (OHM-CM)
ULTRA ETHYLUX® CNP HDPE	0.96	140°F (60°C)	Flammability Resistance Chemical Resistance Dielectric Properties	Highly Conductive	<2
Westlake Plastics has standard formulations for Conductive to Anti-Static for various polymers including Absylux ABS, Pomalux POMC, Propylux PP, Tempalux PEI, Zelux PC. Custom product formulations can be developed upon request.				Conductive	10 ² - 10 ⁶
				Static Dissipative	10 ⁶ - 10 ⁹
				Anti-Static	10 ⁹ - 10 ¹¹
NORYLUX™ FR PPO	1.08	253°F (123°C)	Dimensional Stability Impact Resistance V0 at 0.010" (0.25mm)	Insulative	6 ¹⁵

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H ₂ ENVIRONMENTS	PRODUCT	POLYMER CATEGORY	SPECIFIC GRAVITY	THERMAL HDT @ 264 PSI	KEY ATTRIBUTES
	TEMPALUX® PEI	Technical	1.27	393°F (201°C)	Dimensional Stability Dielectric Properties Heat Resistance
	THERMALUX® PESU	High Performance	1.37	392°F (200°C)	Chemical Resistance Dielectric Properties Heat Resistance
	THERMALUX® PPSU	High Performance	1.29	404°F (207°C)	Chemical Resistance Dimensional Stability Impact Resistance
	THERMALUX® PSU	High Performance	1.24	345°F (174°C)	Dielectric Properties Dimensional Stability Biocompatibility

CASES & HOUSINGS	PRODUCT	POLYMER CATEGORY	SPECIFIC GRAVITY	THERMAL HDT @ 264 PSI	KEY ATTRIBUTES
	ABSYLUX® ABS	Technical	1.03	169°F (76°C)	Dimensional Stability Impact Resistance Dielectric Properties
	AMIDELUX™ PA	High Performance	1.02	226°F (108°C)	Transparent Impact Resistance Chemical Resistance
	NORYLUX™ PPO	Technical	1.08	253°F (123°C)	Dimensional Stability Impact Resistance Dielectric Properties
	POMALUX® POMC	High Performance	1.41	230°F (110°C)	Wear Resistance Chemical Resistance Dielectric Properties

CAPABILITIES	FILM	THIN SHEET ROLLS	THIN SHEETS	SLAB SHEET
GAUGE RANGE	0.002" to 0.020" (0,05mm - 0,5mm)	0.020" to 0.080" (0,5mm - 2mm)	0.020" - 0.300" (0,5mm - 7,6mm)	0.250" - 6" (6,35mm - 152,4mm)
WIDTH	26" (0,66m)	48 - 52" (1,2m - 1,3m)	48" - 52" (1,2m - 1,3m)	Standard Sizes 19" x 24" 24" x 48" 48" x 96" 48" x 120" 60" x 120"
LENGTH	standard 50 lb (22.7 kg) rolls length dependant on material & thickness	up to 24" (0,61m) diameter length dependant on material & thickness	standard 96" (2,4m) custom up to 120" (3,1m)	

SHEET WEIGHT CALCULATION

Length (in.) x Width (in.) x Gauge (in.) x Specific Gravity / 27.68 = lbs./sheet
 Example | TEMPALUX®: 96"L x 48"W x 0.020in x 1.27/27.68 = 4.23 lbs./sheet

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

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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