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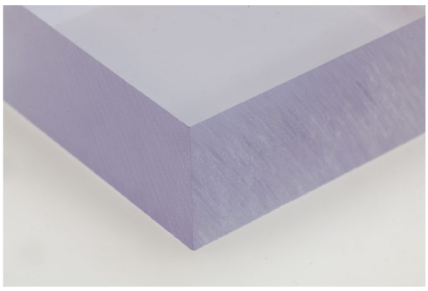
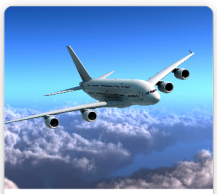
Zelux® M



Zelux® M is Westlake Plastics machine grade polycarbonate (PC). Compression molded Zelux M is made from UV stabilized resin. Extruded Zelux M rods, sheets and film are made from resin that is suitable for use in certain types of food contact applications. Contact your local Westlake Plastics representative for specific regulatory declarations. Zelux M is an inherently transparent engineering thermoplastic offering excellent impact resistance, dimensional stability, strength, and rigidity. This material offers moderate heat resistance and good electrical insulating properties. Zelux® M is also easy to fabricate, paint, and glue.

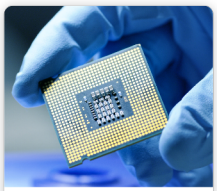
INDUSTRY



Aerospace & Defense

Engineering

Food Processing



Semiconductor and ESD

COLORS AVAILABLE

Black

Transparent

ATTRIBUTES

- Food Contact
- Dimensional Stability
- Impact Resistance
- Dielectric Properties
- UV Resistance

SHAPES

- Extruded Slab
- Compression Sheet
- Extruded Sheet
- Extruded Film
- Extruded Rod

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Zelux® M

TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	339 kpsi	2,340 MPa
Flexural Strength - Yield	D790	14 kpsi	97 MPa
Izod Impact Resistance - Notched	D256	16.99 ft-lb/in	907 J/m
Tensile Elongation @ Break	D638	135 %	135 %
Tensile Elongation @ Yield	D638	7 %	7 %
Tensile Modulus	D638	335 kpsi	2,310 MPa
Tensile Strength @ Break	D638	9.8 kpsi	68 MPa
Tensile Strength @ Yield	D638	8.9 kpsi	62 MPa
Thermal			
HDT @ 264 psi	D648	288°F	142°C
HDT @ 64 psi	D648	293°F	145°C
Physical			
Moisture Absorption	D570	0.15 %	0.15 %
Specific Gravity	D792	1.20	1.20
Electrical			
Volume Resistivity	D257	1 x 10^{17} ohm-cm	1 x 10^{17} ohm-cm

*Data above is based on testing of injection molded test specimens

Other			
Flammability Rating**	UL 94 (file number E240206)	V-0 @ 0.37 inches (natural and black)	

**Results based on testing of machined test specimens

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Zelux® M

PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)
3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)	4.50" (114.3mm)	4.75" (120.65mm)	5" (127mm)
5.25" (133.35mm)	5.50" (139.7mm)	5.75" (146.05mm)	6" (152.4mm)	6.25" (158.75mm)	6.50" (165.1mm)
6.75" (171.45mm)	7" (177.8mm)	8" (203.2mm)	9" (228.6mm)	10" (254mm)	11" (279.4mm)
12" (304.8mm)					

Rods: 96"L (244cm)

0.5" (12.7mm)	1" (25.4mm)	1.25" (31.75mm)	1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)

Extruded Slabs: 24"W (61cm)

0.5" (12.7mm)	0.75" (19.05mm)	1.0" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	2" (50.8mm)
2.5" (63.5mm)	3" (76.2mm)				

Compression Sheets: 48"W x 96"L (122cm x 244cm)

0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)
1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)
3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)		

Extruded Sheets: 48"W x 24"L (122cm x 61cm)

0.5" (12.7mm)	0.75" (19.05mm)	1.0" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2.0" (50.8mm)	2.5" (63.5mm)	3.0" (76.2mm)			

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Zelux® M

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.030" (0.76mm)	0.060" (1.52mm)	0.080" (2.03mm)	0.125" (3.18mm)	0.250" (6.35mm)

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)

LAST REVISED: 08/29/2025

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