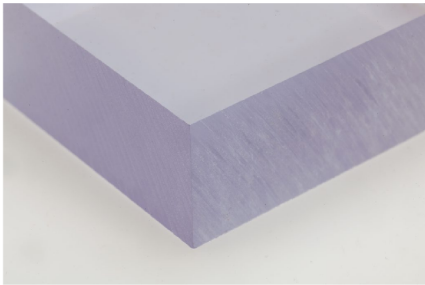




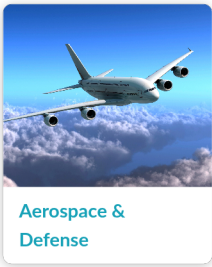
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Zelux® M

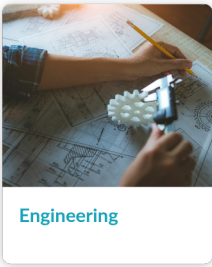


Zelux® M is Westlake Plastics machine grade polycarbonate (PC). Compression molded Zelux M is made from UV stabilized resin. Extruded Zelux M rods, sheets and film are made from resin that is suitable for use in certain types of food contact applications. Contact your local Westlake Plastics representative 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

 Dielectric Properties	
 Food Contact	
 Impact Resistance	
 UV Resistance	
 Dimensional Stability	

SHAPES

Compression Sheet	
Extruded Sheet	
Extruded Film	
Extruded Rod	



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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)
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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)			

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)
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Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.015" (0.38mm)	0.020" (0.51mm)
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Zelux® M

LAST REVISED: 05/15/2025

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