



ZELUX (Westlake)

Thick gage, clear Polycarbonate sheet

Electrical Properties				
Property	Units	Test	Zelux M	Zelux W
Dielectric Constant @60Hz	-	ASTM D150	2.9	2.9
Dielectric Constant @1MHz	-	ASTM D150	2.9	2.9
Dielectric Strength	V/mil	ASTM D149	380	380
Volume Resistivity	ohm•cm	ASTM D257	>1.0X10 ¹⁷	>1.0X10 ¹⁷

Mechanical Properties				
Property	Units	Test	Zelux M	Zelux W
Compressive Strength	psi	ASTM D695	12,500	12,500
Flexural Modulus	psi	ASTM D790	340,000	340,000
Flexural Strength @ yield	psi	ASTM D790	13,500	13,500
Hardness-Rockwell M	-	ASTM D785	M70-78	M70-78
Hardness-Rockwell R	-	ASTM D785	R118	R118
Izod Impact Strength Notched	ft-lbs/in	ASTM D256	16.0	16.0
Charpy Index	ft-lbs/ ¹ / ₈ "x1"	ASTM D256	no break	no break
Tensile Elongation @break	%	ASTM D638	110.0	110.0
Tensile Elongation @yield	%	ASTM D638	7.0	7.0
Tensile Strength @break	psi	ASTM D638	9,500	9,500
Tensile Strength @yeild	psi	ASTM D638	8,400	8,400

Optical Properties				
Property	Units	Test	Zelux M	Zelux W
Haze	%	ASTM D1003	0.5 -2.0	0.5 -2.0

Other Properties				
Property	Units	Test	Zelux M	Zelux W
Specific Gravity	-	ASTM D792	1.20	1.20
Water Absorption @24 hours	%	ASTM D570	0.15	0.15
Water Absorption @ Equilibrium	%	ASTM D570	0.35	0.35

Thermal Properties				
Property	Units	Test	Zelux M	Zelux W
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	3.8x10 ⁻⁵	3.8x10 ⁻⁵
Flam. Rating-UL94 @11.5mm	-	-	V-0	V-0
Heat Deflection Temp. @66 psi	°F	ASTM D648	280	280
Heat Deflection Temp. @264 psi	°F	ASTM D648	275	275
Thermal Conductivity	(BTU•in)/(hr•ft ² •°F)	ASTM C177	1.35	1.35