HIGH PERFOMANCE PLASTICS

ZELUX® GLASS FILLED

PolyCarbonate Glass Filled / PC G.F.

*** ZELUX® is the registered trademark of*

WESTLAKE PLASTICS COMPANY

PRODUCT CAPABILITIES:

· Sheet : 3/8" - 4"
· Rod : 1/2" - 6"

PRODUCT COLORS:

● Black

ADVANTAGES:

· Excellent Impact Resistance
· Excellent Dimensional Stability
· Low Moisture Absorption
· Easy To Machine
· Good Strength And Stiffness Over A Wide Range Of Service Temperatures
· Good Electrical Insulating Properties

APPLICATIONS INCLUDE:

· Impact Shields
· Fluid Handling Components
· Manifolds
· Scientific And Analytical Instrument Components
· Electrical Components
· Housing And Covers

GENERAL PROPERTIES	ASTM or UL Test	ZELUX® 20% G.F Typical Values	ZELUX® 30% G.F Typical Values
PHYSICAL			
Specific Gravity (g/cm^3)	D792	1.35	1.43
Water Absorption, 24 hrs (%)	D570	0.16	0.14
MECHANICAL			
Tensile Strength (psi)	D638	16,000	19,000
Tensile Elongation at Break (%)	D638	5	3
Flexural Strength (psi)	D790	19,000	23,000
Flexural Modulus (psi)	D790	800,000	1,100,000
IZOD Notched Impact (ft-lb/in)	D256	2	2
IZOD Un-Notched Impact (ft-lb/in)	D256	19	21
Hardness, Rockwell	D785	R122 / M91	R121 / M92
THERMAL			
Coeff. of Thermal Expansion (x 10^{-5} in./in./°F)	D696	1.5	1.21
Heat Deflection Temp (°F / °C) @ 264 psi	D648	295 / 146	295 / 146
Thermal Conductivity (BTU-in/ft^2-hr-°F)	C177	1.46	1.53
Flammability Rating @ 0.058"	UL-94	V-1	V-1
ELECTRICAL			
Dielectric Strength (V/mil)	D149	490	475
Dielectric Constant at 1 MHz	D150	3.13	3.31
Dissipation Factor at 1 MHz	D150	0.0073	0.007
Volume Resistivity (ohm-cm) at 50% RH	D257	1.0 x 10^{17}	1.0 x 10^{17}

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.